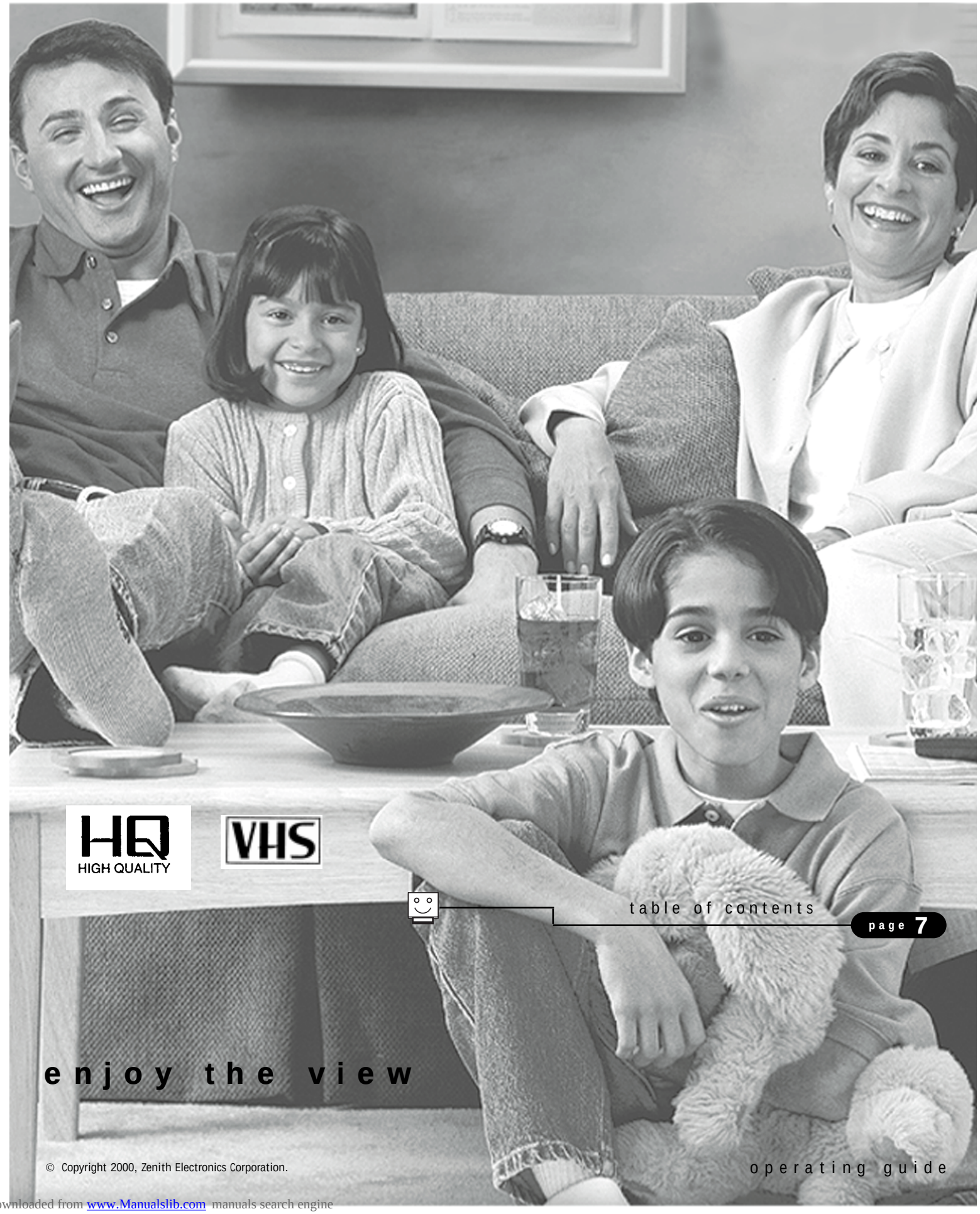
machine numbers | TVBR1322Z | TVBR1922Z
TV/VCR Combination

zenith



HQ HIGH QUALITY

VHS

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enjoy the view

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operating guide

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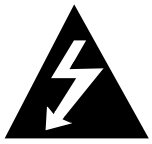
RECORD YOUR MODEL NUMBER
(Now, while you can see it)

The model and serial number of your new TV/VCR Combination Entertainment Machine™ are located on the back of the cabinet. For your future reference and convenience, we suggest that your record those numbers here:

MODEL NO._____

SERIAL NO._____



WARNING:

TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

POWER CORD POLARIZATION:

CAUTION: To Prevent Electric Shock, Match wide blade of plug to wide slot, fully insert.

ATTENTION: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

NOTE TO CABLE/TV INSTALLER:

This reminder is provided to call the cable TV system installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical.

REGULATORY INFORMATION:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION:

Do not attempt to modify this product in any way without written authorization from Zenith Electronics Corporation. Unauthorized modification could void the user's authority to operate this product.

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IMPORTANT SAFETY INSTRUCTIONS

Important safeguards for you and your new product

Your product has been manufactured and tested with your safety in mind. However, improper use can result in potential electrical shock or fire hazards. To avoid defeating the safeguards that have been built into your new product, please read and observe the following safety points when installing and using your new product, and save them for future reference.

Observing the simple precautions discussed in this guide can help you get many years of enjoyment and safe operation that are built into your new product.

This product complies with all applicable U.S. Federal safety requirements, and those of the Canadian Standards Association.

1. Read Instructions

All the safety and operating instructions should be read before the product is operated.

2. Follow Instructions

All operating and use instructions should be followed.

3. Retain Instructions

The safety and operating instructions should be retained for future reference.

4. Heed Warnings

All warnings on the product and in the operating instructions should be adhered to.

5. Cleaning

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

6. Water and Moisture

Do not use this product near water for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.

7. Accessories

Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

8. Transporting Product

A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

PORTABLE CART WARNING

9. Attachments

Do not use attachments not recommended by the product manufacturer as they may cause hazards.

10. Ventilation

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

11. Power Sources

This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

12. Line-Cord Polarization

This product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

13. Power-Cord Protection

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

(Continued on next page)

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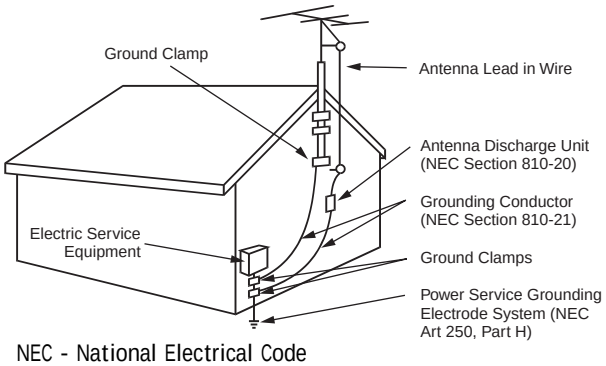
IMPORTANT SAFETY INSTRUCTIONS

(Continued from previous page)

14. Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code (U.S.A.), ANSI/ NFPA 70 provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Example of Grounding According to National Electrical Code Instructions


Ground Clamp
Antenna Lead in Wire
Antenna Discharge Unit (NEC Section 810-20)
Grounding Conductor (NEC Section 810-21)
Electric Service Equipment
Ground Clamps
Power Service Grounding Electrode System (NEC Art 250, Part H)

NEC - National Electrical Code

15. Lightning

For added protection for this product (receiver) during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

16. Power Lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

17. Overloading

Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

18. Object and Liquid Entry

Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

19. Servicing

Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

20. Damage Requiring Service

Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

a. If the power-supply cord or plug is damaged.

b. If liquid has been spilled, or objects have fallen into the product.

c. If the product has been exposed to rain or water.

d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.

e. If the product has been dropped or the cabinet has been damaged.

f. If the product exhibits a distinct change in performance.

21. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

22. Safety Check

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

23. Wall or Ceiling Mounting

The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

24. Heat

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

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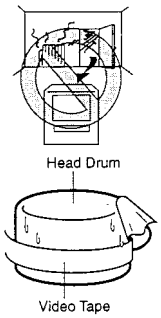
Follow these simple precautions to avoid problems with your TV/VCR

Moisture Condensation



Do not operate any functions on this unit for at least two hours or three hours when moisture in the air condenses on it. Let the unit stand with power on (see below).

What is moisture Condensation?

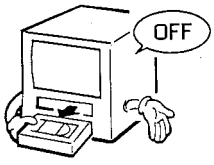
When a cold liquid is poured into a glass, for example, water vapor in the air will condense on the surface of the glass. This is called moisture condensation.

Moisture will condense on the unit under the following conditions:

• When you move the unit from a cold to a warm place.
• After heating a cold room or under extreme humidity conditions.

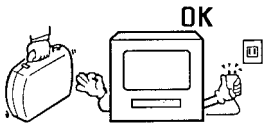
When the unit has been exposed to the above conditions - plug the power cord into an AC outlet, press the POWER button to turn the TV/VCR on and leave it at room temperature until the moisture condensation disappears. Depending on the surrounding conditions, this may take two or three hours.

Unload Cassette, Turn Power Off



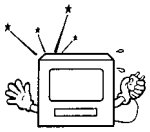
When you finish operating the unit, always unload the cassette and turn off the power.

Vacation, Time Away



When you will be away and the unit will not be operated for a long time, unplug the AC power cord.

Static Discharge



If you cause a static discharge when touching the unit and the unit fails to function, simply unplug the unit from the wall outlet, wait a few minutes and then plug it back in. The unit should return to normal operation.

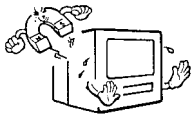
Moisture and Dust

Avoid exposing the unit to conditions which are extremely dusty or are extremely moist and damp.

Ventilation

The ventilation holes prevent overheating. Do not block or cover these holes. Especially avoid covering the holes with soft materials such as cloth or paper.

Electromagnetic Interference

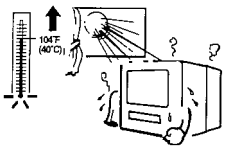


Do not place the unit near appliances which may cause electromagnetic interference (e.g. speakers, etc.) Doing so may cause erratic operation of the unit including picture and/or sound distortion or noise.

Liquid Spills

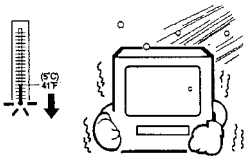
Keep the unit away from flower vases, sinks, etc. If liquid should be spilled in the unit, serious damage will result. If you spill any liquids into the unit, unplug the AC power cord immediately and consult a qualified service person before attempting to use the TV/VCR.

Extreme Heat



Avoid using or exposing the unit to extreme heat; at or above 104°F (40°C). For example, in direct sunlight.

Extreme Cold

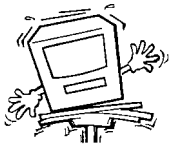


Avoid using the unit in extreme cold; at or below 41°F (5°C). For example, outdoors in freezing weather.

Foreign Objects

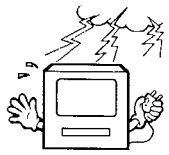
Do not insert fingers or any other foreign objects into the cassette loading compartment. Do not spray cleaner or wax directly on the unit or use forced air to remove dust.

Strong Vibrations



Avoid using the unit where there may be strong vibrations. Always use the unit in a horizontal, flat position only.

Lightning Storms, Unplug AC Power Cord



To protect the unit from a lightning storm, unplug the AC power cord from the wall outlet and disconnect the antenna or CATV cable.

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Features on this TV/VCR

Note: In order to use the Commercial Advance feature described in this operating guide, tapes must be recorded using this TV/VCR.

Color TV with Video Cassette Recorder - Unique space-saving design combines a 13" color TV and a video cassette recorder.

High-Quality Picture Technology - This TV/VCR equipped with VHS high-quality technology. A built-in detail enhancer is used to boost the recorded signal and provides maximum picture quality during playback. It is compatible with other VHS video cassette recorders.

120 AC 60Hz Operation - This TV/VCR is designed to operate from normal household current.

181 Channel Tuner - Receives standard VHF and UHF broadcast channels and up to 113 cable channels. The actual number of channels received depend upon channel reception in your area or your cable system.

Closed Caption Decoder With Full Text Mode - Displays text captions or full screen text on the screen for hearing impaired viewers.

V-Chip (Parental Control) - V-Chip can rate a program's or Movie's content; allowing you to set a restriction level.

8 Programs/1 Month Programmable Timer With Everyday/Everyweek Capability - The built-in timer allows automatic absentee recording of up to 8 TV programs within one month. It is also possible to schedule to record a program which is broadcast at the same time everyday or everyweek.

Automatic Clock Set - Once your TV/VCR is plugged into the AC outlet, it automatically sets the correct date and time.

On-Screen TV Display and VCR Programming - When you select a channel or make other changes, the TV will show an indicator on the screen for a few seconds. Timer programming can be programmed and confirmed on the screen.

Picture Adjustments Using the Remote Control - The on-screen display allows precise remote control adjustment for BRIGHTNESS, CONTRAST, COLOR, TINT, and SHARPNESS.

Automatic Playback, Rewind-Stop-Eject - When loading a cassette tape without the erasure prevention tab, this TV/VCR will automatically play back the cassette tape at the correct speed. When a tape reaches its end during playback, recording (except during OTR and Timer Recording) and fast forward, it will automatically stop, rewind, stop and eject the tape.

Programmable On/Off Timers - Allows you to automatically schedule to turn on or off the TV/VCR at the preset time.

Programmable TV Sleep Timer - Operates from the remote control, the TV can be programmed to turn off automatically for up to 120 minutes.

Automatic Repeat Play System - When the Auto Repeat option is turned on, the TV/VCR will automatically play back the same cassette tape repeatedly.

One-Touch Timer Recording - Simply by pressing the REC/OTR button, the TV/VCR can be programmed for up to 5 hours of recording with an immediate start.

Audio/Video Input/Output Jacks - A VCR or other video device may be hooked up to this TV/VCR for dubbing or playback purposes.

Auto Turn-on with Tape Insertion - When a tape is inserted into the tape loading compartment, the TV/VCR automatically turns itself on.

Commercial Advance - Automatically or manually advances from the start to the end of commercials during playback.

2-Speed Picture Search - 3 or 5 times normal speed in SP mode (7 or 9 times in LP mode and 9 or 15 times in SLP mode).

3-Speed Record/Playback - Records and plays three tape speeds (SP, LP, and SLP).

Real-Time Tape Counter with Zero Return - The counter displays the real tape time and the zero return can be used to return the tape to a preselected position (00:00:00) while the counter can be used to locate programs.

Digital Auto Tracking - Automatically adjusts tracking during playback for the best possible picture.

Manual Tracking Control - Manually adjusts tracking during playback.

On-Screen 3-Language Display - You can select one of 3 languages, English, Spanish, or French for on-screen programming.

TV/Monitor - When "TV MONI." on the remote is pressed during playback, the TV channel selected with the TV/VCR tuner appears.

Pause/Still Playback - Freezes tape playback.

Tape to Zero Position Return - Tape can be rewound to the 00:00:00 position by pressing "Zero Counter".

Note: Design and specifications are subject to change without prior notice.

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Hookup Directory

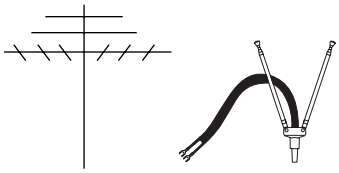
This page directs you to the appropriate page for hook up your Entertainment Machine

IMPORTANT!!

Use this page to decide where you need to begin your setup. First, find the line below that best describes what you want to do, then go to that page number.
Note: Design and specifications are subject to change without prior notification.

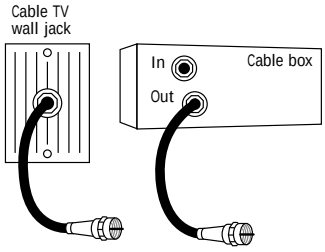
Antenna only

If you are using an antenna and no other equipment, go to . . . . . page 9



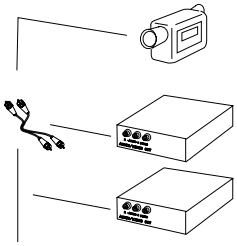
Cable only

If you subscribe to cable service and no other equipment, go to . . . . . page 10
If you subscribe to cable service and receive scrambled and unscrambled channels, go to page 11



Audio/Video

If you want to connect Audio/Video equipment, go to . . . . . page 12



Headphones

If you want to connect headphones, go to . . . . . page 12

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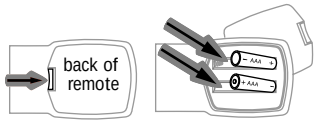
Hook Up an Off Air Antenna

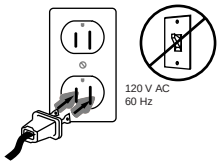
Connect an off air antenna to your Entertainment Machine

1 Hook up your Entertainment Machine, see diagrams at right.

2 Remove the back of the remote and put in two AA batteries.



3 Plug in your TV. Do not plug it into a switched outlet.

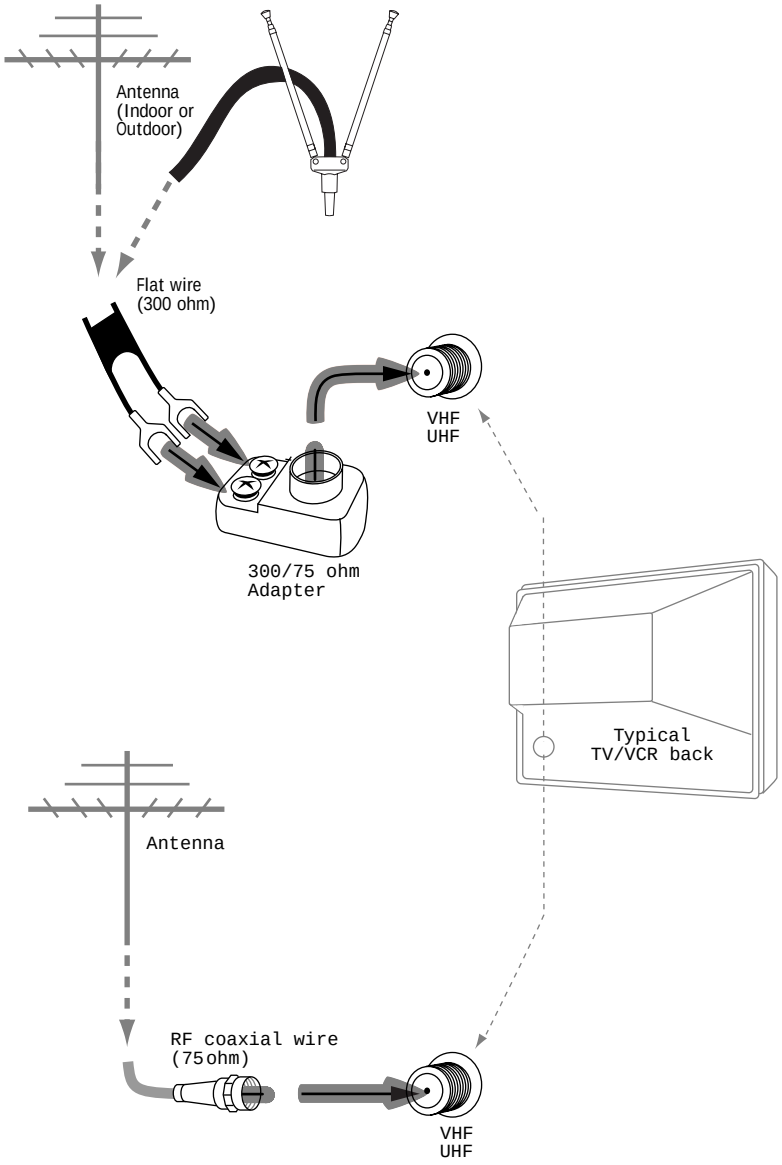


4 Go to page 17 to set up Auto Ch Memory on your Entertainment Machine.

If you have a 75 ohm RF cable, then you don't need any adapters!

Remember, when screwing RF cables onto jacks, clockwise tightens, and counterclockwise loosens.

A 300 to 75 ohm adapter is not included with your Zenith Entertainment Machine.



Mini glossary

75 OHM RF CABLE	The wire that comes from an off air antenna or cable service provider. Each end looks like a hex shaped nut with a wire sticking through the middle, and it screws onto the threaded jack on the back of your TV.
300-75 OHM ADAPTER	A small device that connects a two-wire 300 ohm antenna to a 75 ohm RF jack. They are usually about an inch long with two screws on one end and a round opening with a wire sticking out on the other end.

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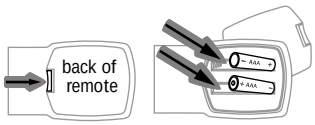
Hook Up Cable Service (CATV)

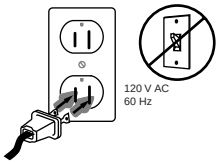
Connect Cable service to your Entertainment Machine

1 Hook up your Entertainment Machine, see diagrams at right.

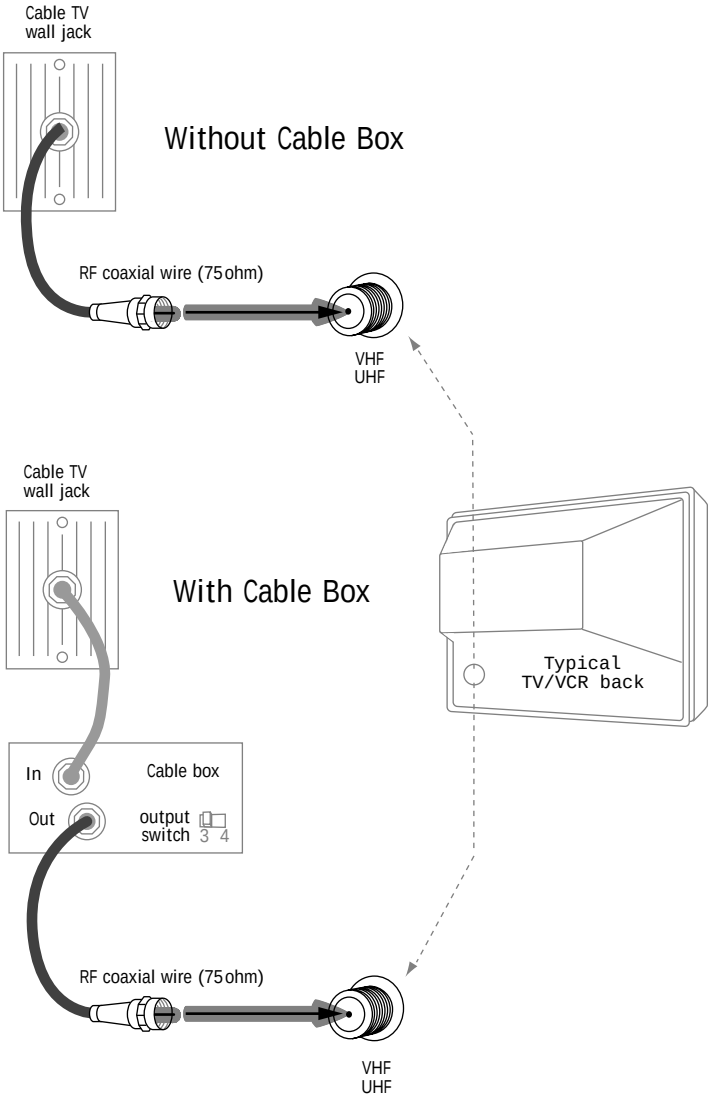
2 Remove the back of the remote and put in two AA batteries.



3 Plug in your TV. Do not plug it into a switched outlet.



4 Go to page 17 to set up Auto Ch Memory on your Entertainment Machine.



If you're using a cable box, leave your TV/VCR on channel 3 or 4 and use your cable box to change channels.

Remember to set the cable box output switch to channel 3 or 4.

If you're using a cable box, Auto Ch Memory (page 17) might only find the channel your cable service is on (usually channel 3 or 4). Don't worry, that's all you need!

Mini glossary

CABLE SERVICE — The wire that supplies all your cable TV (CATV) stations.

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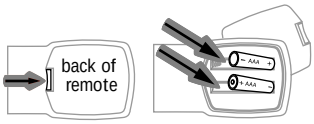
Hook Up Cable (CATV) alternate

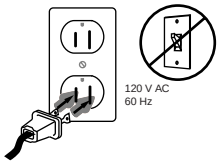
Connect Cable service with a cable box, scrambled, and unscrambled channels to your Entertainment Machine

1 Hook up your Entertainment Machine, see diagrams at right.

2 Remove the back of the remote and put in two AA batteries.



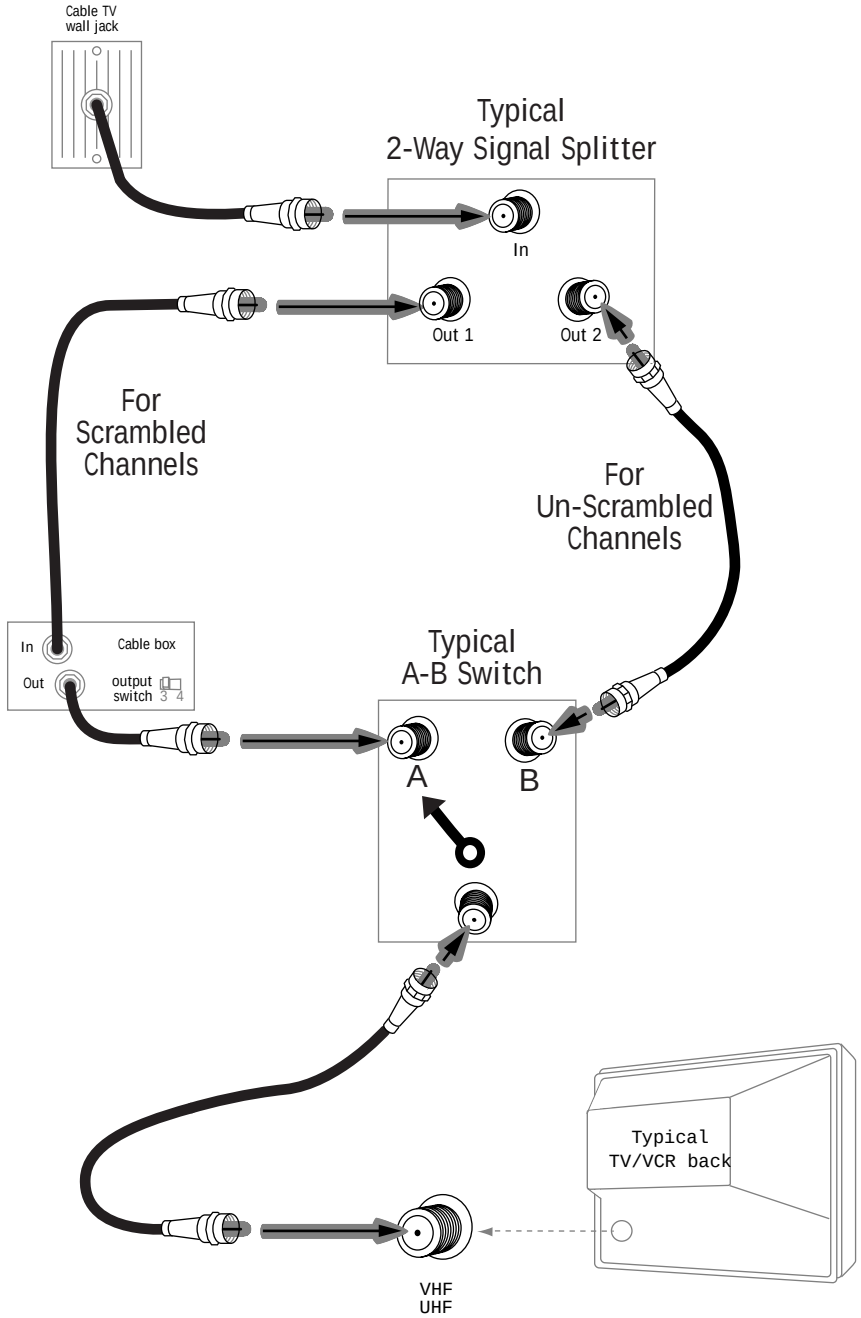
3 Plug in your TV. Do not plug it into a switched outlet.



4 Go to page 17 to set up Auto Ch Memory on your Entertainment Machine.

Leave your TV/VCR tuned to channel 3 or 4 and use the cable box to change channels.

Remember to set the cable box output switch to channel 3 or 4.



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Audio/Video, Headphone Connections

Make temporary or permanent Audio/Video connections to your Entertainment Machine - - in from or out to accessory audio/video equipment; using the Audio/Video In/Out Jacks on the front and/or back connection panels. Connect your monaural audio headphones for private listening...

Headphones

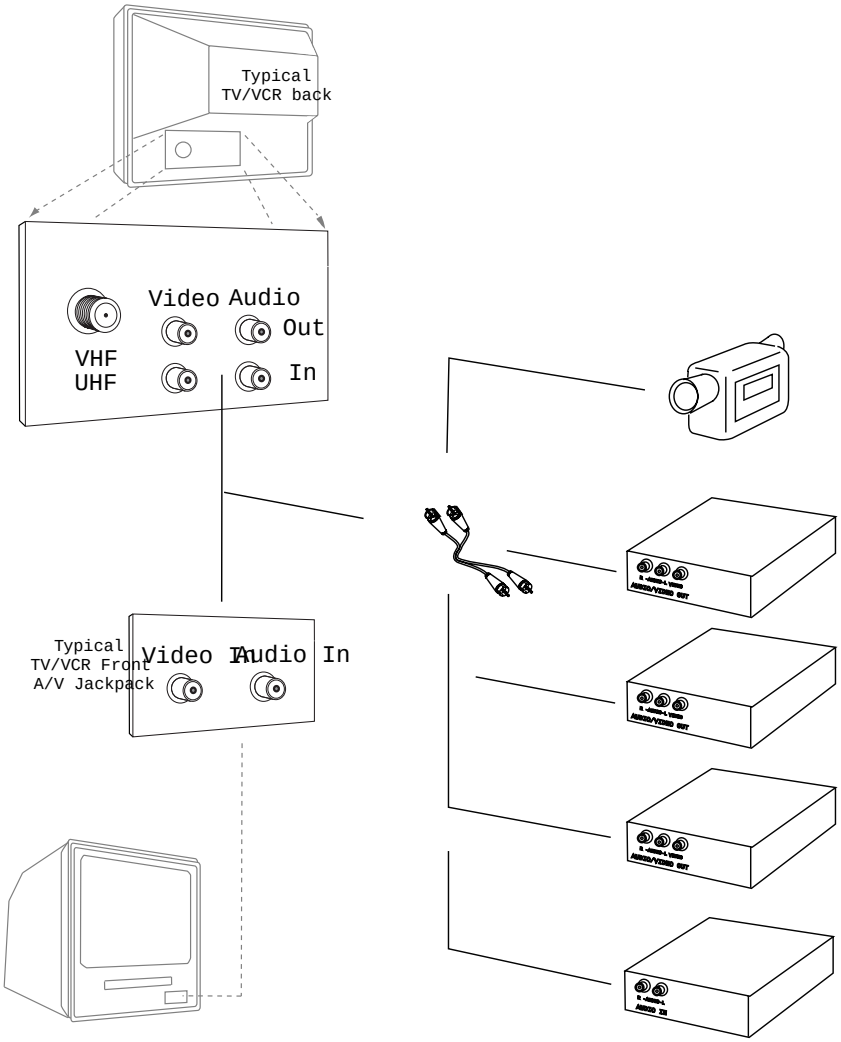
1 Locate the "Phones" jack on the front of your TV/VCR. Connect the cord coming from your headphones to this jack.

2 Unplug the headphones when finished with private listening.

Audio / Video

1 Hook up your audio/video equipment to your Entertainment Machine, see diagrams.

2 Go to page 21 to select an audio/video accessory as the source for your picture and sound.



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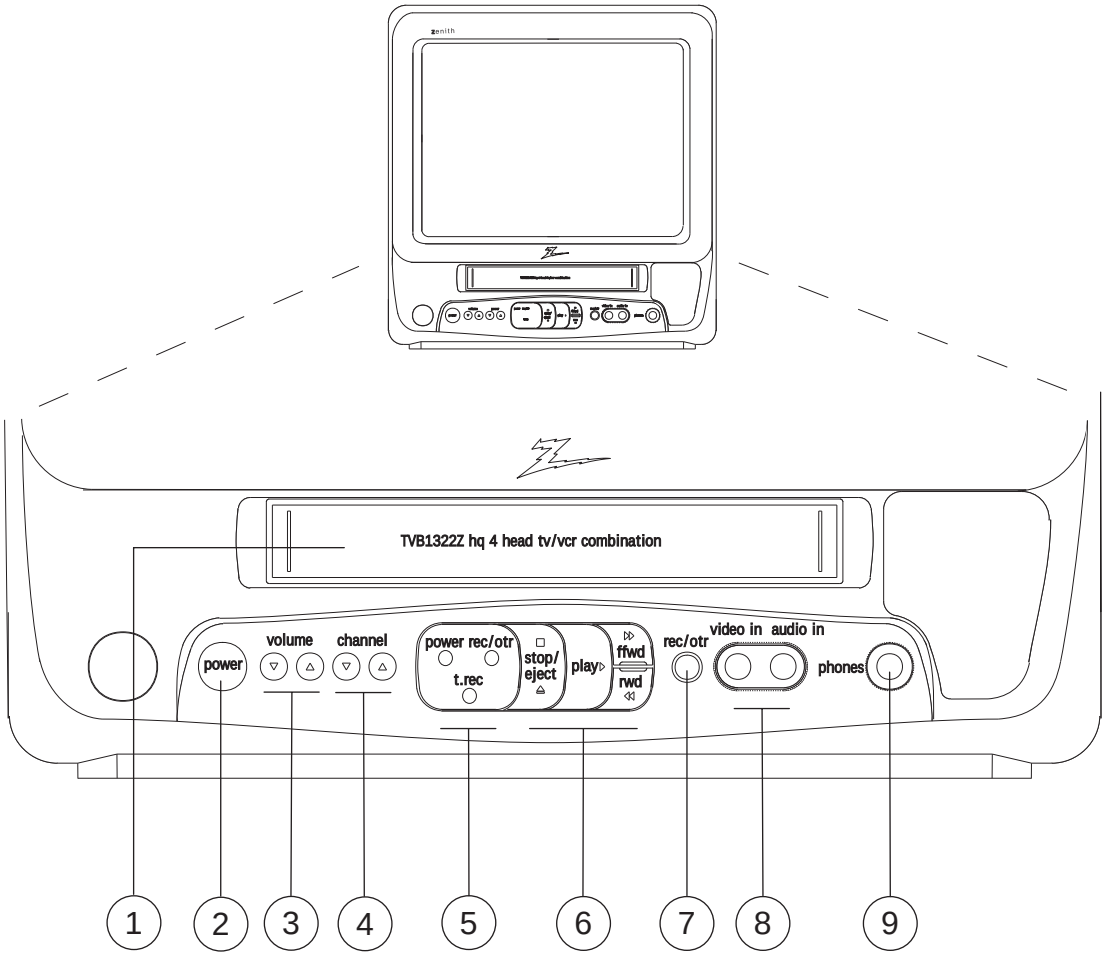

Front Panel Controls

Note: Your front controls may differ from those shown above.

1. Cassette Loading Compartment
   Loads and unloads VHS video cassettes.
2. Power Switch
   Turns TV/VCR on and off.
3. Volume Controls
   Increases or decreases the audio sound level.
4. Channel Selectors
   Chooses channel numbers below or above the currently selected channel number, found by Auto Ch Memory.
5. LED Function Indicators
   When lit, shows current TV/VCR operating mode.
   Power = TV/VCR is on.
   REC/OTR = VCR is recording in one-time record mode.
   T. Rec = VCR is in timer recording mode and is scheduled to, or is recording a program.
6. VCR Function Controls
   Stop / Eject. = One press stops tape, second press ejects the tape.
   Play = Press to begin playing a tape (playback).
   F.Fwd, Rew = press to fast forward or rewind tape.
7. Instant Record Button
   Press to record the image currently appearing on the screen. One press records until end of tape or stop. Second press records for 30 minutes and each press thereafter adds an additional 30 minutes to the recording time.
8. Front Audio/Video In Jacks
   Used for connecting audio/video equipment.
9. Headphones Input jack
   Connect your headphones to this jack for monaural sound audio private listening.

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Remote Control Key Functions

A quick list of the keys on your remote and what they do

POWER
Turns TV/VCR On or Off.

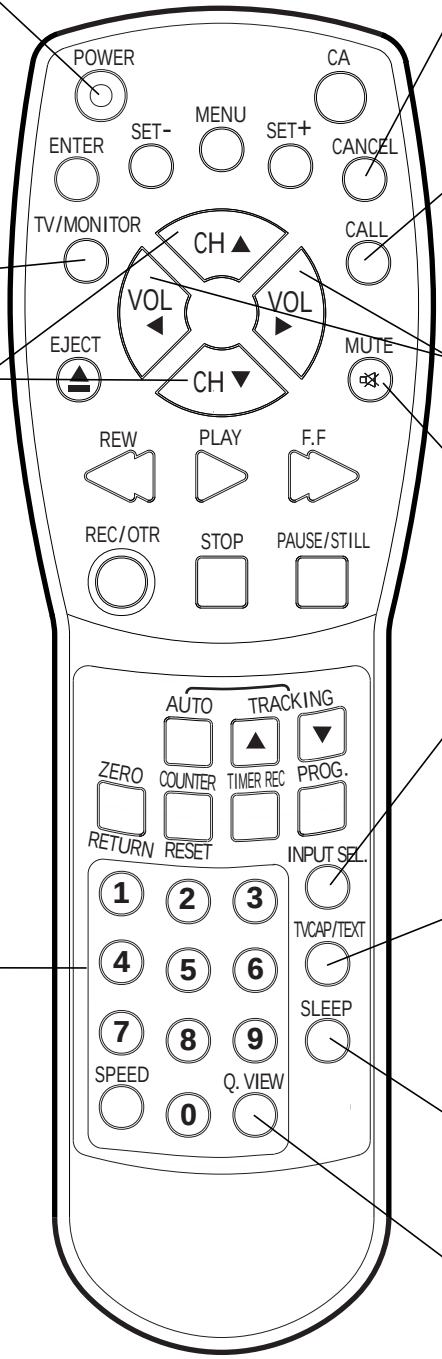
MENU/ENTER/SET-/SET+
Use to enter and exit, select and adjust, on-screen menu options.

TV/MONITOR
Switches between tape playback and currently tuned TV channel.

CHANNEL (UP/DOWN)
Flip through available channels.

VCR CONTROLS
(See descriptions on next page.)
Used for recording or playing VHS video cassette tapes.

NUMBER KEYPAD
Selects channels directly and enters numbers for some on-screen menu options.



CANCEL
Deletes programs from scheduled Timer Recording and goes back to previous menu option on some on-screen menus

CALL
Turns current status display on and off. Shows: Current time, VCR tape counter, Day, Channel number, and Tape recording or playback speed.

VOLUME LEFT/RIGHT
Increase/decreases sound level.

MUTE
Turns sound Off and On while the picture remains.

INPUT SEL. (Select)
Picks Line 1, Line 2, or the currently selected channel or tape playing. (Line 1 = Front Audio/Video In jacks. Line 2 = Back Audio/Video In jacks.)

TV/CAP/TEXT
Switches between Caption, Text, and TV modes for Closed-Captioned programs. CAPTION CH1, CAPTION CH 2, TEXT CH1, TEXT CH2, or off.

SLEEP (SLEEP TIMER)
Press repeatedly to pick a preset time to automatically turn the TV/VCR off.

Q. VIEW (QUICK VIEW)
Returns to previously viewed channel.

If you've lost your remote, you can get a new one by calling 1-800-255-6790 to purchase a replacement.

remote control part number
SC1322
(924-10063)

206-3481

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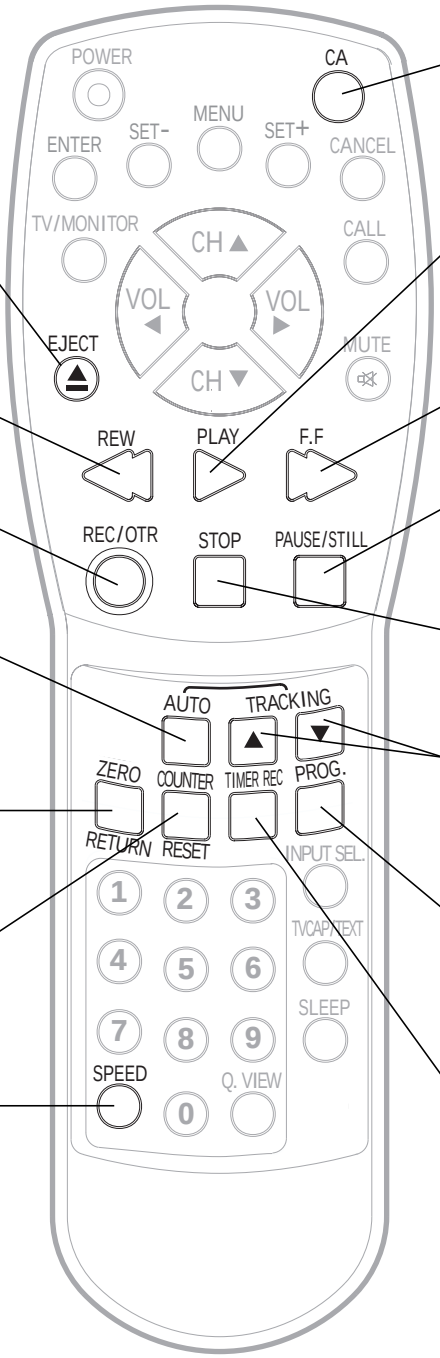
Remote Control VCR Functions

A quick list of the VCR function keys on your remote and what they do

Note: Your remote control keys may differ from the ones shown here.



CA
Commercial Advance. Use to skip over commercial breaks on tapes recorded with this TV/VCR.

EJECT
Unloads videocassette from tape loading compartment.

PLAY
Starts tape playback.

REW (Rewind)
Rewinds videocassette.

F.F (Fast Forward)
Advances tape forward rapidly.

REC/OTR (One-Time Record)
Begins recording currently shown picture and sound.

PAUSE/STILL
Temporarily halts tape movement in playback or record modes.

STOP
Halts tape movement in playback or record modes.

AUTO (TRACKING)
Press to resume automatic tracking from manual tracking mode during tape playback.

TRACKING
(Manually Adjust Digital Tracking Controls) Used to adjust tracking manually during tape playback.

ZERO RETURN
Rewinds or advances tape to the 00:00:00 position.

PROG. (Program Review)
Press to confirm the programs scheduled for timer recording, press a second time to check the On/Off Timer settings, press again to exit menu.

COUNTER RESET
(Counter Reset Control)
Resets the real-time tape counter to 00:00:00.

TIMER REC (Record)
Used to turn Timer Recording feature on and off.
On = VCR will make scheduled timer recordings.
Off = VCR will not begin any scheduled timer recordings.

SPEED
Adjusts tape recording speed:
SP (Short play),
LP (Long play),
SLP (Super long play).

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Basic Menu Operation

Use the remote control to operate the on-screen menus; first selecting a menu option, then adjust it to your preference

1 Pressing MENU repeatedly turns on the menu system and shows the menus on the screen.

2 Pressing the "Set+" or "Set-" keys on the remote control repeatedly, moves the menu highlighter to the next menu option line. (SET- moves the highlight down with each press, SET+ moves the highlight up with each press.)

3 Once the menu option is highlighted (flashing rectangle is on the same line as the option), pressing "ENTER" will go to the option or make a change. In this case to move the arrow next to "TV" or "CATV".

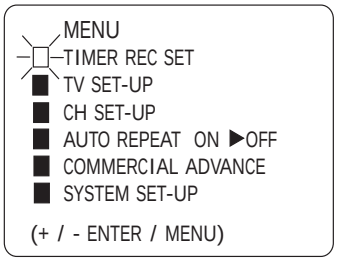
4 On some menus, CANCEL clears the selected program in Timer recording setup or moves the cursor backwards.

5 When you have finished setting the menu options to your preference, press "MENU" repeatedly to remove all menus and return to TV viewing.

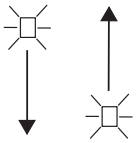
If you need to enter numbers on the menus use the number keypad on the remote control.

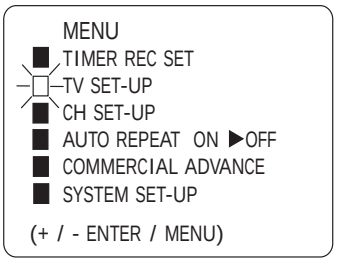
The front panel cannot be used to operate the TV/VCR menus.

1. MENU

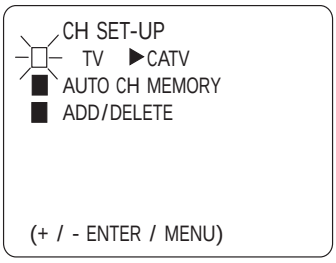


2. SET- SET+

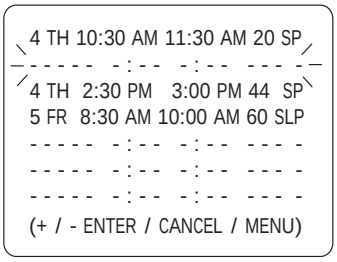




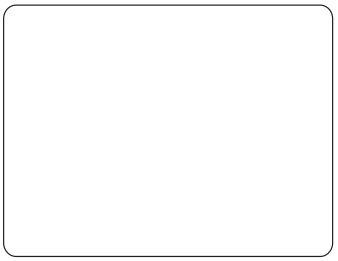
3. ENTER



4. CANCEL



5. MENU



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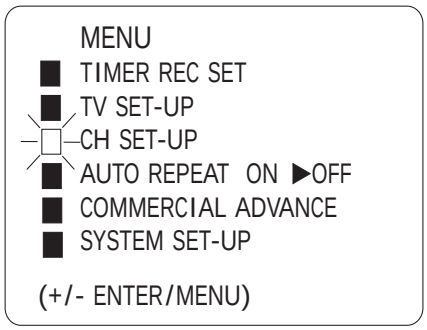
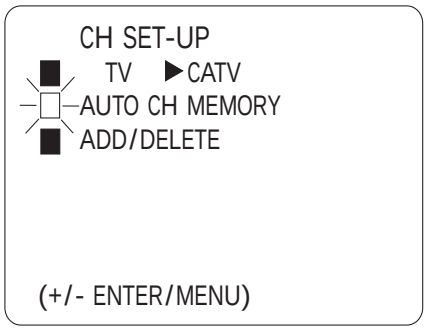
Auto Ch Memory (Channel Search)

Auto Ch Memory automatically finds and stores in the TV/VCR's memory all the channels in your area. Select:
TV: if you receive off-the-air signal reception.
or
CATV: if you subscribe to a cable service.





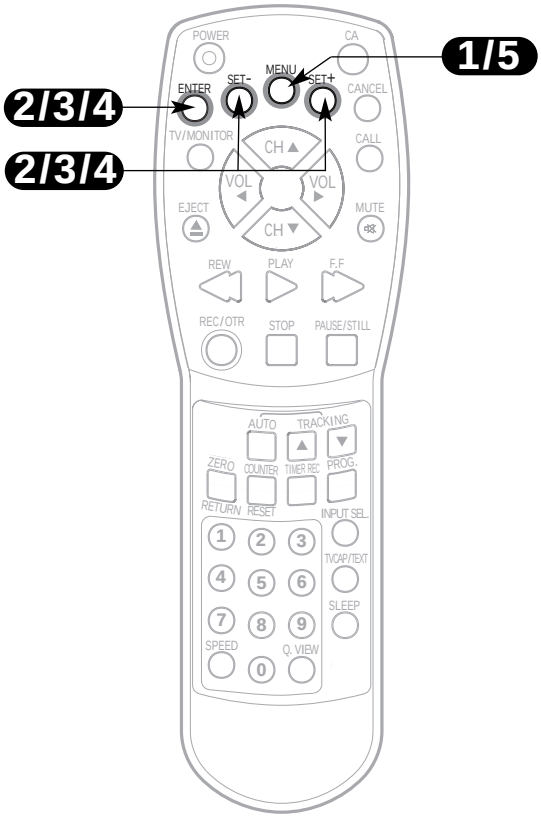
1 Press MENU repeatedly to select the menu with "CH SET-UP".

2 Use the "Set+" or "Set-" key on the remote control, to move the highlight to select "CH SET-UP" on your screen, then press ENTER to go to the "CH SET-UP" menu.

3 Use the "Set+" or "Set-" key on the remote control, to move the highlight to the line with "TV" "CATV", then press "ENTER" to move the arrow next to "TV" or "CATV".

4 Use the "Set+" or "Set-" key on the remote control, to move the highlight to "AUTO CH MEMORY". Press "ENTER" to begin the channel search.

5 When the channel search is complete, press "MENU" repeatedly to remove menus or use (Channel) ADD/DELETE.



Add/Delete

Press MENU repeatedly to go to the Main Menu.

Use SET- or SET+ to highlight CH SET-UP, press ENTER.

Use SET- or SET+ to highlight ADD/DELETE, press ENTER.

Press CH up/down to go through the channels one number at-a-time. Or, using the number keypad, enter the channel number directly. If the words on the selected channel's on-screen display appear in green, the channel is added. If the words appear in red, the channel is deleted. Press ENTER to change the display to green if you want the channel added or to red if you want the channel deleted.

Select another channel to add or delete or press MENU repeatedly to remove all menus from the screen and return to TV viewing.

Note: Auto Ch Memory finds channels being received by the TV/VCR tuner.

CATV will not work unless you subscribe to a cable service.

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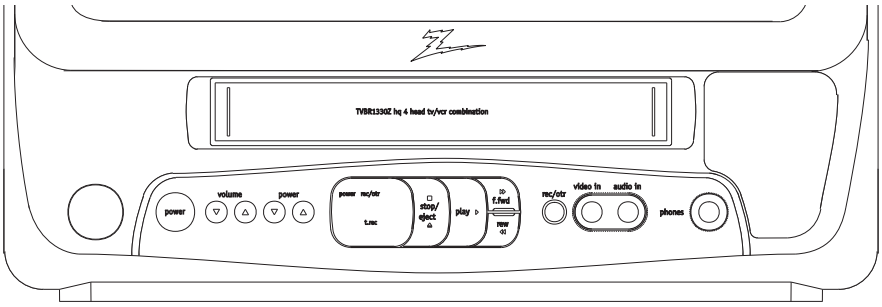
Basic TV Operation

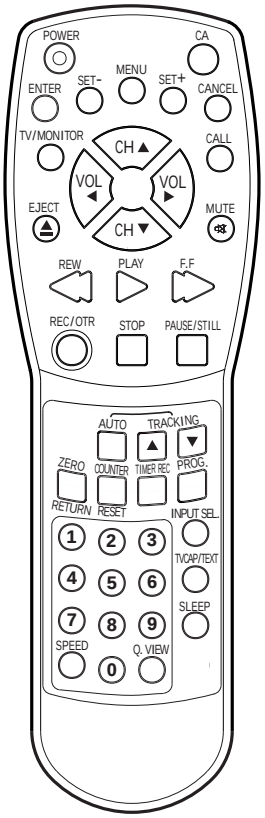
All features can only be accessed with the remote control but only some of the play and one-time record features with the front panel controls



1 (After connections have been made and the channel search completed.) Use the front panel controls or the remote control to select a channel to view and adjust the sound to your preference.

2 Select channels by entering the channel number directly on the remote number keypad or by using CH up/down. Adjust the sound level by decreasing or increasing the level using VOL (Volume) left/right.

3 Press POWER to turn TV/VCR off when finished viewing.



Additional Options:
Select Viewing Source - If you have other equipment connected to the front or rear audio/video jacks, press "INPUT SEL." repeatedly to switch between available picture and sound sources. Line 1, Line 2, or TV/CATV.

Mute Sound - Press "MUTE" to remove sound, press MUTE again to restore sound.
Channel Flashback - Press "Q. VIEW" to return to the previous channel.
Sleep Timer - Press "SLEEP" repeatedly to set the number of preset minutes that the TV/VCR will turn itself off in.

Closed Captions/Text (If available) - Press TV/CAP/TEXT repeatedly to select mode of operation:
TV (no caption or text on screen).
Caption = Caption Ch1 or Caption Ch2.
Text = Text Ch1 or Text Ch2.

Notes:
See the Table of Contents on page 7 and the on-screen menus overview and selecting viewing sources on pages 20-21 for additional features available. See pages 14-15 for TV/VCR operating features available with the remote control. See page 19 for basic VCR operation: to play and record tapes.

Cable Box Users: If you are using a cable box to tune channels, be sure the TV/VCR is tuned to the cable box output channel; usually 3 or 4.

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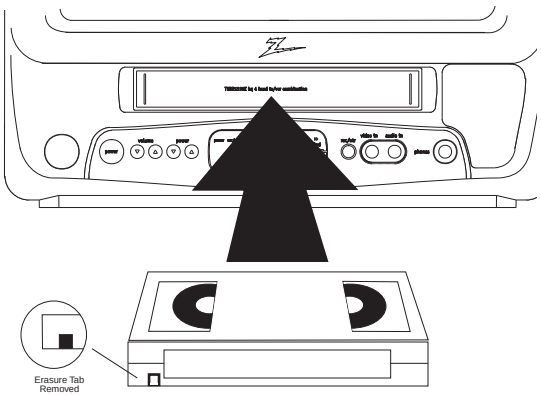
Playing/One-time recording VHS videocassette tapes

Playing Tapes

1. After connections have been made and the channel search completed, press POWER to turn TV/VCR on.
2. Insert a VHS video cassette tape into the tape loading compartment.
3. Press PLAY. (If the tape security tab has been removed, the tape will begin to play automatically.) Press STOP to halt playback.
4. Press EJECT to unload tape.



Recording Tapes (One-Time Recording)

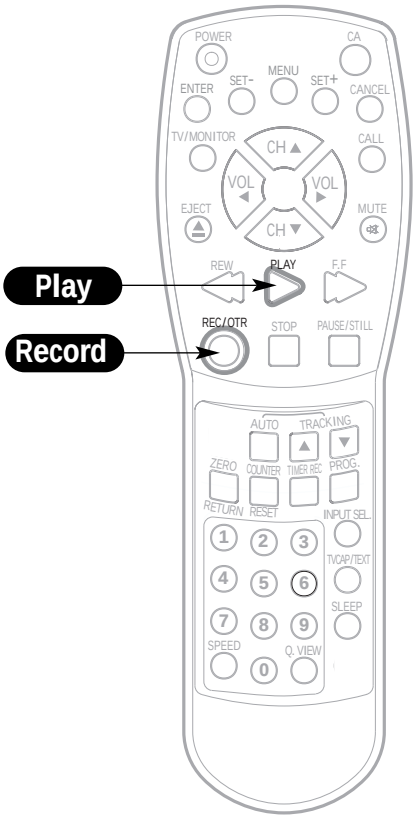
1. Insert a tape into the tape loading compartment. Rewind or advance the tape to the position you want the recording to begin at. (You can only record on tapes which have the erasure prevention tab intact. If the VHS cassette does not have the erasure tab intact, eject the tape and paste a piece of clear mylar tape over the security tab hole to be able to record on the tape.)

   Tune to the channel or the input source you want to record so that its image appears on the screen. Press: REC/OTR to record the image on the screen.

   Press PAUSE to momentarily halt recording, press PAUSE again to resume recording.

   Press STOP to halt recording, press EJECT to remove tape when finished.

   Press EJECT to unload tape and POWER to turn TV/VCR off when finished viewing.



You can press REC/OTR repeatedly to choose Instant Timer Recording. Each press will increase recording time by 30 minutes up to a maximum of 5 hours.

Additional recording options are available such as Timer recording; used to record tapes while you are away. Recording speed and other options are available, see the table of contents on page 7 for additional recording options.

Some features can only be accessed with the remote control.

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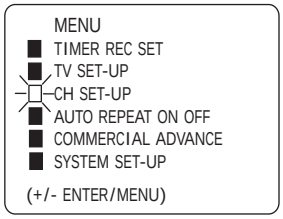
Descriptions of the menus and displays on your Entertainment Machine

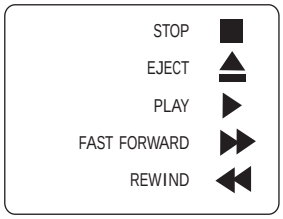
MENU	*Adjusts the features of your Entertainment Machine*	
Timer Rec Set	23	Timer recording set up programs the VCR to record while you are away.
TV Set-Up Menu	*Sets your V-Chip viewing restrictions, Sets On/Off Timer, and Picture adjustments*	
V-Chip Set	30	Sets your viewing restriction preferences.
On/Off Timer	27	On=Turns the TV/VCR on and tunes to the preset channel. Off=Turns the TV/VCR off automatically.
Sleep Timer	28	Sets a time for your Entertainment Machine to turn itself off automatically.
Caption/Text	28	Chooses a captioning or text option for your Entertainment Machine.
Picture	29	Adjusts your picture controls, options are: Contrast, Brightness, Color, Tint, Sharpness.
Ch Set-Up Menu	*Specifies your signal reception and preforms channel search*	
TV/CATV	17	Selects the incoming signal source. (TV =off-the-air antenna, CATV =pay cable service.)
Auto Ch Memory	17	Automatically finds and stores active channels to flip through using Channel Up/Down.
Add/Delete	17	Manually picks and chooses which active channels will appear when using Channel Up/Down.
Auto Repeat	21	Feature can be turned On or Off. If on, will automatically repeat playing a tape.
Commercial Adv.	21	Playback Commercial Advance, (if on recorded tape) can advance tape past commercial interruptions.
System Set-Up Menu	*Sets up the operational features*	
Clock Set	24	User manually sets the Month, Day, Year, and Current Time.
Language	22	Picks the language (English/Spanish/French) you want your on-screen menus to appear in.
Auto Clock	23	TV/VCR automatically sets the internal clock.
Standard Time	26	Pick your time zone: Atlantic, Pacific, Central, Eastern, Mountain, Alaska, Hawaii, or Auto.
Daylight Sav. Time	25	Adjusts the clock for Daylight Savings Time.
Input Select	21	Chooses the picture and sound for the TV screen from the available sources.

ON-SCREEN DISPLAYS

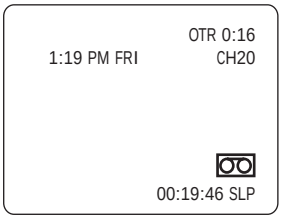
Call	20	Shows the current: time, channel number, video/audio source, playback speed setting, tape counter position if a tape is loaded, and the tape status; play, stop, record etc.
Channel	20	Shows the number of the newly tuned channel.
Volume Display	20	Shows the current sound level.



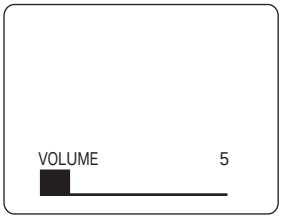
Typical Menu



VCR Status Displays



OTR/Call Display



Volume Display

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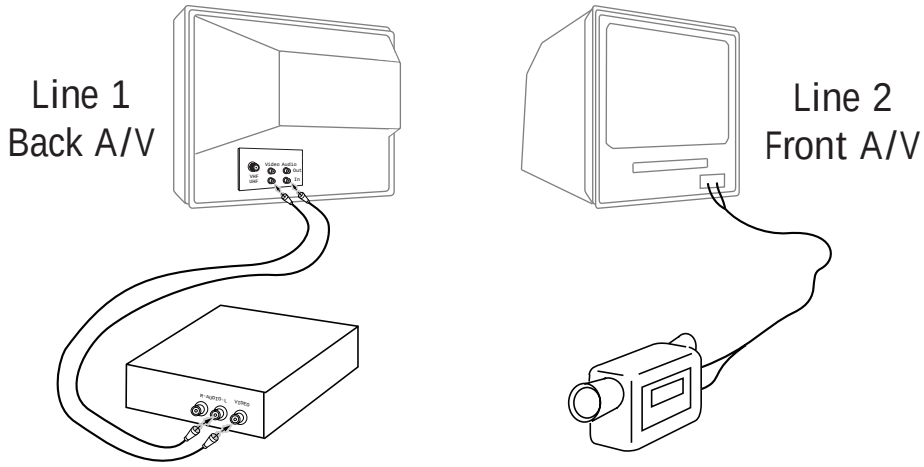
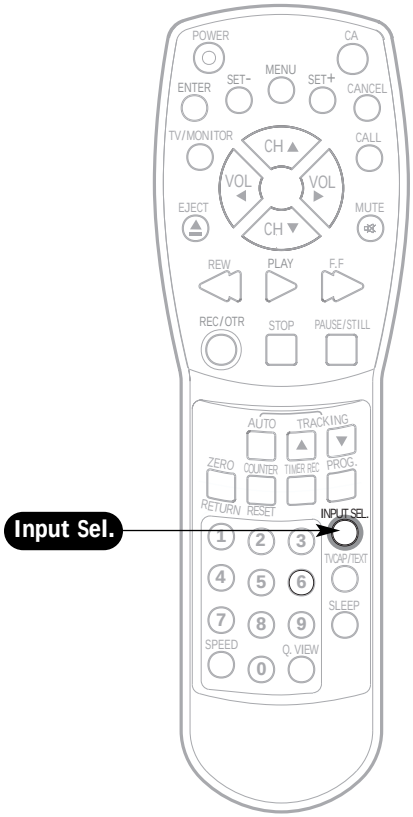
Selecting Viewing Sources

Choose the picture and sound source: Line 1, Line 2, or UHF/VHF (CATV - TV)



1 Press INPUT SEL. (Select). Each press accesses a different source if you have connected Audio/Video equipment to the front and/or rear Audio/Video input jacks.

Your choices for input sources are: UHF/VHF, Line 1, and Line 2.



Some audio equipment is equipped with Right and Left Audio Out jacks. In this case, connect the TV/VCR Audio in jack with a wire to the "Left" Audio Out Jack on the external Audio/Video equipment.

Mini glossary

UHF/VHF	The television tuner, or tape playing in the VCR.
SOURCE	Connection on the TV's back or front jack connection panels providing picture and sound to the TV.

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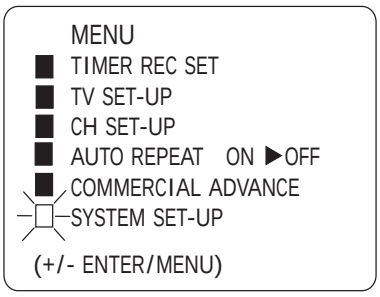
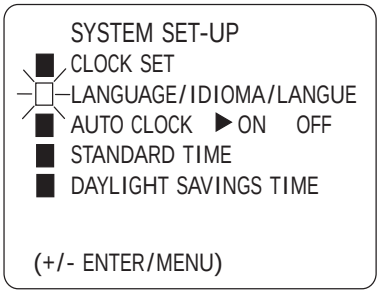
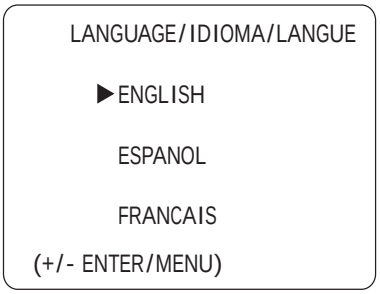
Language for On-Screen Menus

Choose the language you want the on-screen menus to appear in







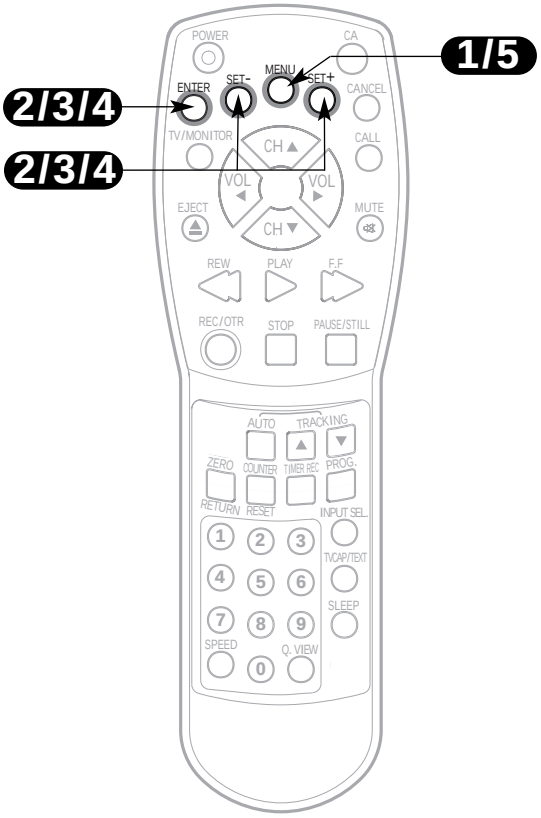
1 Press “MENU” on the remote control to display the main menu.

2 Use the “Set+” or “Set-” key on the remote control, to move the highlight to select “SYSTEM SET-UP” on your screen, then press ENTER to go to the “SYSTEM SET-UP menu.

3 Use the “Set+” or “Set-” key on the remote control to move the highlight to the line with “LANGUAGE/IDIOMA/LANGUE”, then press “ENTER”.

4 Use the “Set+” or “Set-” key on the remote control, to move the highlight next to ENGLISH, ESPANOL (Spanish) or FRANCAIS (French). Press “ENTER” to change the language.

5 Press “MENU” repeatedly to remove all menus and return to TV viewing.



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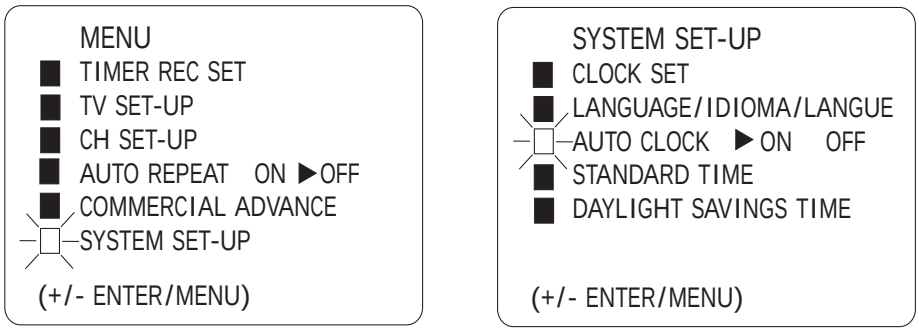
Auto Clock Menu (TV Sets Clock)

As shipped, the Auto Clock option is set to On, turn Auto Clock off to set the clock by yourself

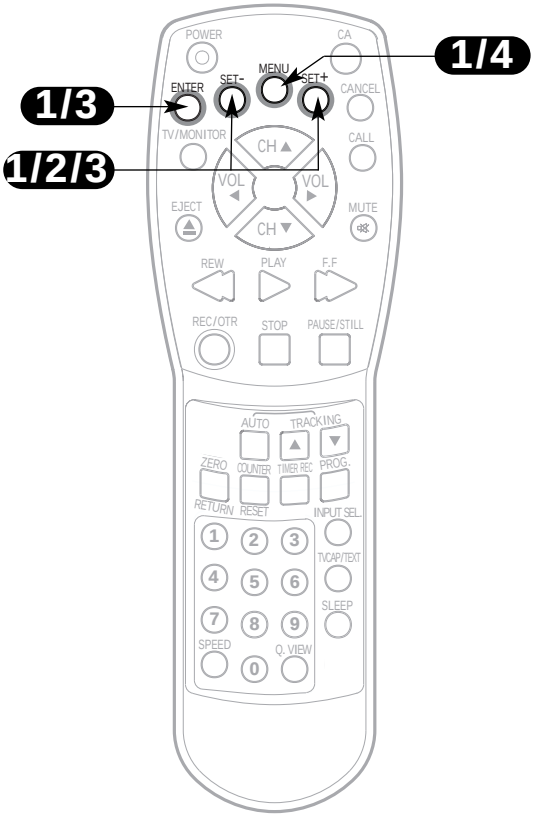


1 Press MENU to show the on-screen menu. Use “Set+” or “Set-” on the remote control, to move the highlight to the “SYSTEM SETUP” line, then press ENTER.

2 Use “Set+” or “Set-” on the remote control, to move the highlight to the “AUTO CLOCK” line on your screen.

3 Press “ENTER” to move the arrow next to On or OFF.

4 After you make your selection, press “MENU” repeatedly to remove all menus and return to TV viewing.



Setting the TV/VCR internal clock automatically requires that all connections be made and that a signal is being received, the power cord connected and that the TV/VCR be turned off for approximately five minutes.

If the clock is not set accurately by the Auto Clock feature, then you will have to set the clock manually see the next page. (Auto Clock Set depends on receiving an XDS signal.)

The TV's clock time is adjusted about 12:00 p.m. each day if the clock has been set automatically.

Unplugging the power cord for 5 minutes resets the clock to 12:00 a.m., Jan. 1, 2000.

Mini glossary

PBS	Public broadcasting system.
XDS	Extended Data Service, provided by some broadcasters.

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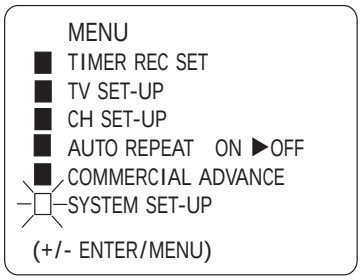
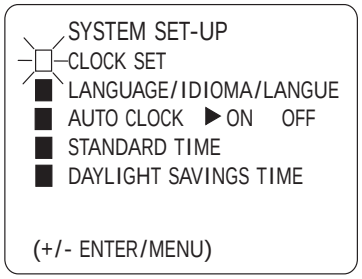
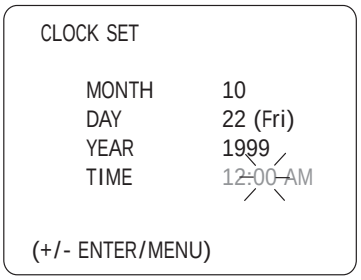
Clock Set Menu (Set Clock Manually)

As shipped, Auto Clock is set to On. If the clock is set incorrectly, you can set the Month, Day, Year, and current time on the clock by yourself





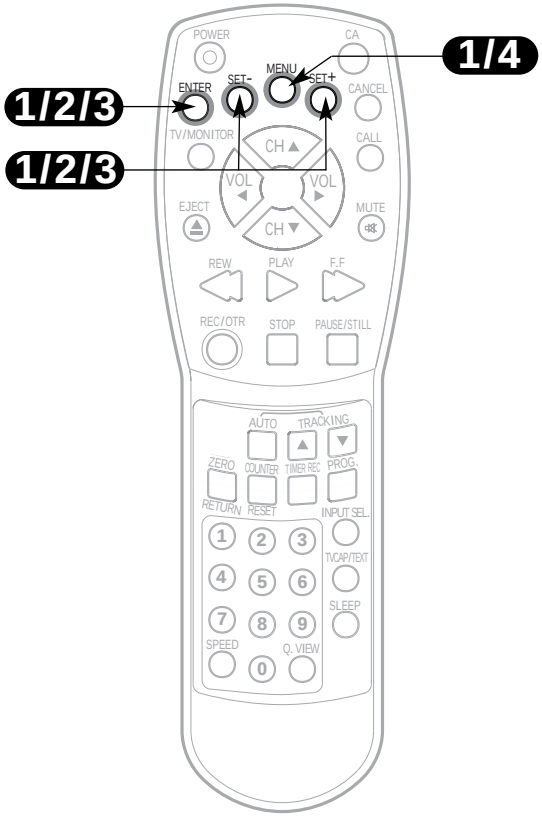


1 Press MENU to show the on-screen menu. Use the "Set+" or "Set-" key on the remote control, to move the highlight to the "SYSTEM SETUP" line, then press ENTER.

2 Use the "Set+" or "Set-" key on the remote control, to move the highlight to the "CLOCK SET" line on your screen, then press ENTER to go to the "CLOCK SET" menu.

3 Use the "Set+" or "Set-" key on the remote control, to pick the current month, 1 is Jan., 2 is Feb., etc.. Press "ENTER" to move the flashing cursor to the next feature "DAY". Use the "Set+" or "Set-" key to set the day-1, 2, 3 etc., press ENTER to go to the year line. Follow the method described above to set the Year and current time.
Note: to set a time that is p.m., keep pressing the "Set+" or "Set-" key repeatedly to scroll through the p.m. hours.

4 When the clock is set, press "MENU" repeatedly to remove all menus and return to TV viewing.



Time Zone adjustments - - see page 25.
Daylight Savings Times adjustments - -see page 26.

Mini glossary

DAY	Sets the current date and day of the month e.g. 24 (Tues).
TIME	Current Hours, Minutes and A.M. or P.M.

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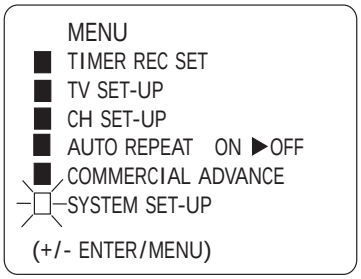
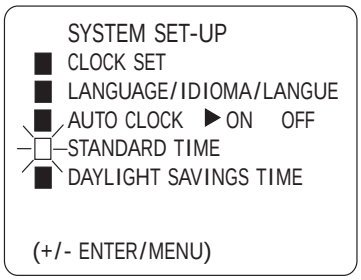
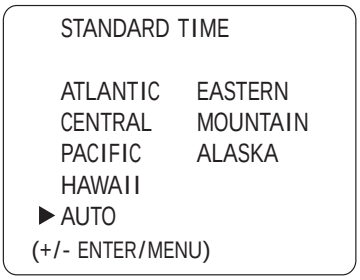
Standard Time (Time Zones)

Adjust the clock for your Time Zone by your self or have the TV adjust it for you automatically







1 Press MENU to show the on-screen menu. Use the “Set+” or “Set-” key on the remote control, to move the highlight to the “SYSTEM SET-UP” line, then press ENTER.

2 Use the “Set+” or “Set-” key on the remote control, to move the highlight to the “STANDARD TIME” line on your screen, then press ENTER to go to the “STANDARD TIME” menu.

3 Use the “Set+” or “Set-” key on the remote control, to move the highlight to your time zone or AUTO, then press ENTER.

4 When the Standard Time (Time Zone) option is set, press “MENU” repeatedly to remove menus and return to TV viewing.

TV/VCRs are set with Standard Time on Auto. Auto sets the time zone for your area automatically.

If the clock is set incorrectly for your time zone, set the clock manually, see page 24.

Atlantic	*GMT*	*- 4 hours*
Eastern	*GMT*	*- 5 hours*
Central	*GMT*	*- 6 hours*
Mountain	*GMT*	*- 7 hours*
Pacific	*GMT*	*- 8 hours*
Alaska	*GMT*	*- 9 hours*
Hawaii	*GMT*	*- 10 hours*
Auto	*Time Zone is automatically set*	

Mini glossary

AUTO	The clock time will be adjusted automatically for your time zone.
GMT	Greenwich Mean Time.

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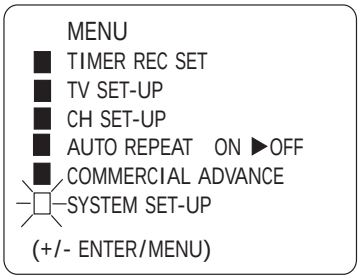
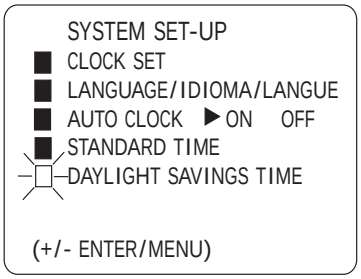
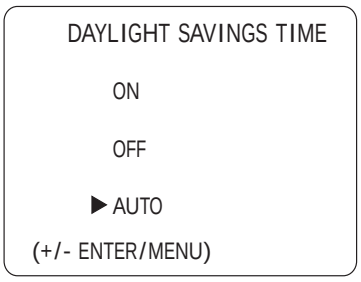
Daylight Savings Time Menu

Adjust the clock for your Daylight Savings time automatically







1 Press MENU to show the on-screen menu. Use the "Set+" or "Set-" key on the remote control, to move the highlight to the "SYSTEM SETUP" line, then press ENTER.

2 Use the "Set+" or "Set-" key on the remote control, to move the highlight to the "DAYLIGHT SAVINGS TIME" line on your screen, then press ENTER to go to the "DAYLIGHT SAVINGS TIME" menu.

3 Use the "Set+" or "Set-" key on the remote control, to move the highlight to ON, OFF, or AUTO, then press ENTER.

4 When your Daylight Savings option is set, press "MENU" repeatedly to remove menus and return to TV viewing.

Daylight Savings Time Occurs; on the first Sunday in April and the last Sunday in October.

If Daylight Savings Time is not observed in your area or if it is set incorrectly, set Daylight Savings to Off.

Mini glossary

ON	Manually set to On to move the clock forward one hour on the first Sunday in April.
OFF	Manually set to Off to move the clock backward one hour on the last Sunday in October.
AUTO	The time will be set with the XDS signal automatically when daylight savings time occurs.

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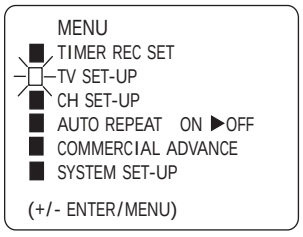
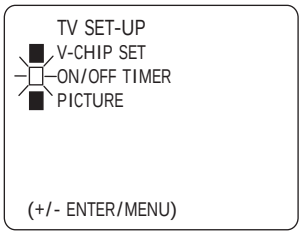
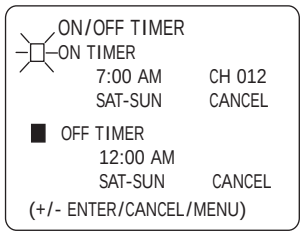
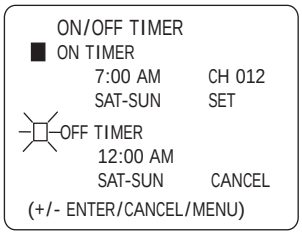
TV On Timer / Off Timer

Set the timers to turn your Entertainment Machine on, tune to the preset channel, and turn itself off automatically; on the days you specify. Note: TV/VCR Clock must be set before timers can be selected!









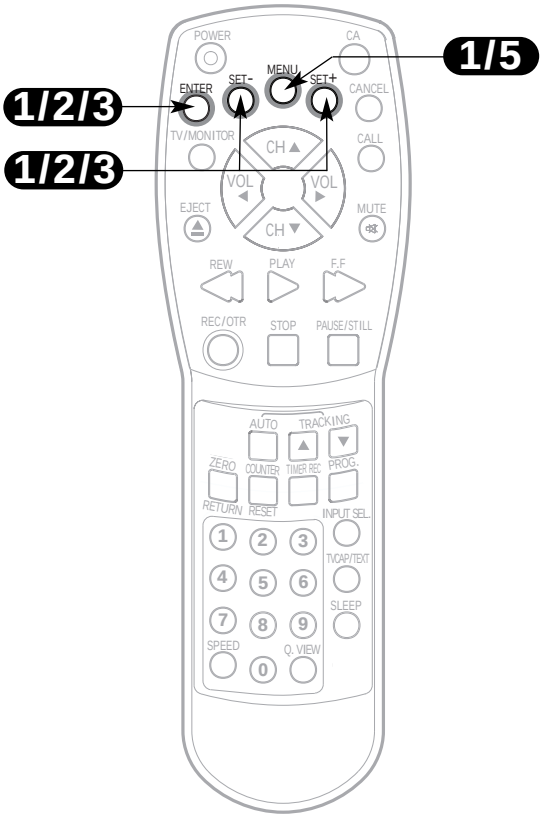
1 Press MENU to show the on-screen menus on your screen. Use the "Set+" or "Set-" key on the remote control, to move the highlight to the "TV SET-UP" line, then press ENTER.

2 Use the "Set+" or "Set-" key on the remote control, to move the highlight to the "ON/OFF TIMER" line on your screen, then press ENTER to go to the "ON/OFF TIMER" menu.

3 Use the "Set+" or "Set-" key on the remote control to move the highlight to the "ON TIME" line, press ENTER. Set the hours and minutes for the turn-on time using "Set+" or "Set-" and pressing ENTER. (You can use the Line 1 or Line 2 inputs instead of one of the channel numbers found by the Ch Memory function to go to at TV turn on.) Using the method described above, pick the days you want the feature active, e.g. Mon-Fri, or one of the other options available. Pick either "SET" or "CANCEL" to have the option active or inactive.

4 Set your TV turn Off time using the method described above. Off time can be set to turn the TV off any time of the day.

5 When the On/Off Timer is set, press "MENU" repeatedly to remove menus and return to TV viewing.



You can make changes to your current settings by simply accessing the menu and pressing ENTER when the highlight moves to the settings you want to retain and using "Set+" or "Set-" to make changes to the settings you want to change.

Active/Inactive Option: You can also save your current settings but make the On or Off timers "inactive" by choosing "Cancel" instead of "Set" in the menu.

If no Off time is set, then the TV will turn off 1 hour after the preset turn on time.

Mini glossary

ON TIME	Preset time when your TV will automatically turn itself on.
OFF TIME	Preset time when your TV will automatically turn itself off each day.
SET	Feature will be active.
CANCEL	Feature will be inactive.

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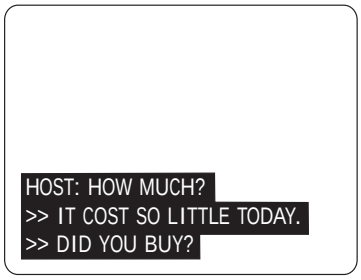
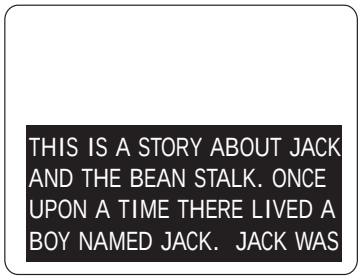
Closed Captions/Text, Sleep Timer

Choose a closed captions or text option to appear on your screen and/or pick one of the preset times to automatically turn your Entertainment Machine off



Typical Closed Captions



Typical Text

Captions/Text

1 To choose a Captions or Text setting, press "TV/CAP/TEXT". Each press brings up a different setting. Your Closed-Caption / Text options are:

2

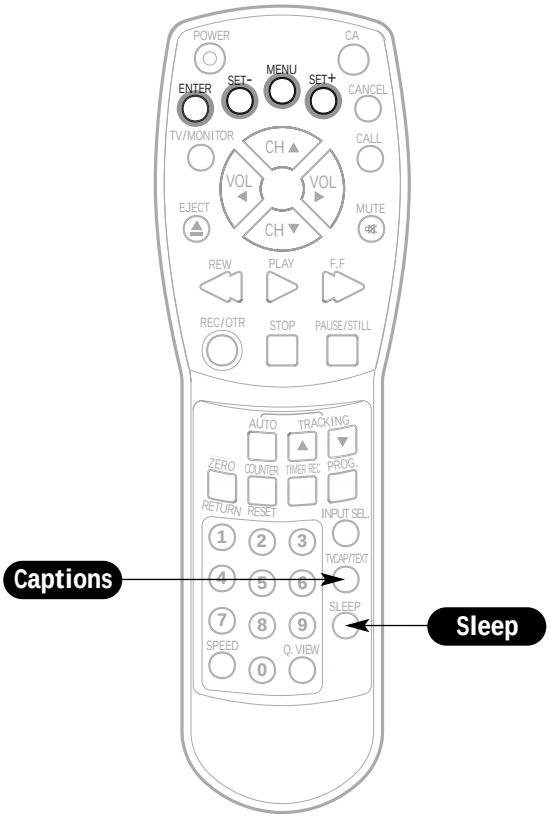
CAPTION CH1, CAPTION CH 2, TEXT CH1, and TEXT CH2.

3

Note: Not all programs carry closed captions or text. If captions are available, they will probably appear on "CAPTION CH1".

Sleep Timer

Press "SLEEP" repeatedly to select from the preset times a time for the TV/VCR to turn itself off. Options are in minutes: 120, 110, 100, 90, 80, 70, 60, 50, 40, 30, 20, 10, , or 0 (Sleep Timer is off).



Closed captions or text is usually provided for the hearing impaired.

Not all programming has closed captions or text available. Check your local TV listings.

Mini glossary

CAPTIONS	Words that appear line-by-line on a black background as a program is being viewed.
TEXT	Words that appear in a black box covering a good portion of the screen as a program is being viewed.
SLEEP TIMER	Feature that automatically turns the TV/VCR off after a preset time has expired.

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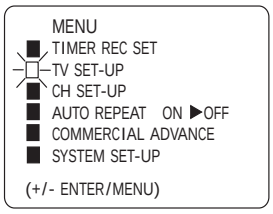
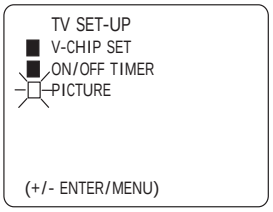
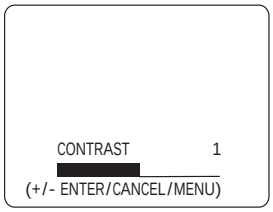
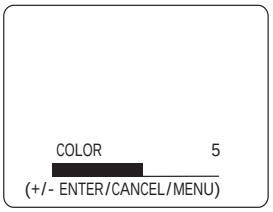
Picture Menu

Adjust the Picture on your Entertainment Machine to your personal preference









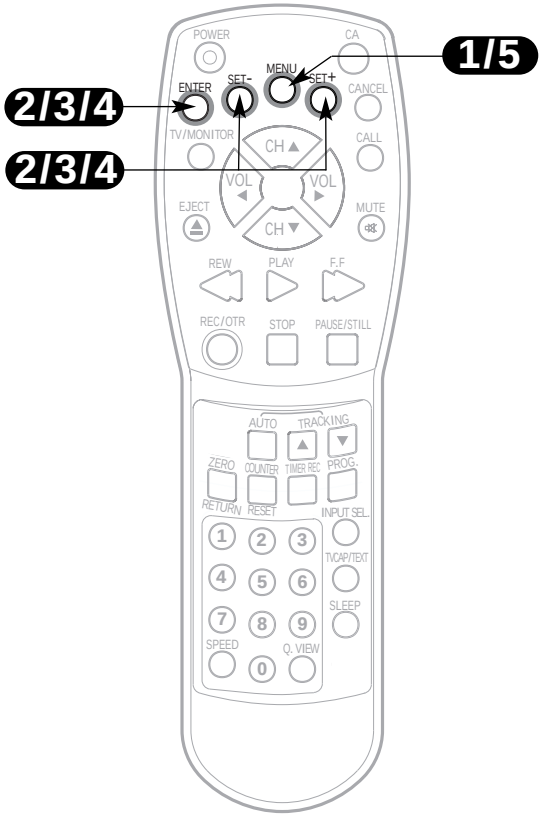
1 Press MENU repeatedly to show the menu with the TV-SETUP option.

2 Use the “Set+” or “Set-” key on the remote control, to move the highlight to the “TV SET-UP” line, then press ENTER.

3 Use the “Set+” or “Set-” key on the remote control, to move the highlight to the “PICTURE” line on your screen, then press ENTER to go to the “PICTURE” menu.

4 Press ENTER repeatedly to select one of the Picture menu options: Brightness, Contrast, Color, Tint, Sharpness. Once the option is selected use the “Set+” or “Set-” key on the remote control, to change the setting.

5 When you are finished adjusting the picture menu options to your preference, press “MENU” repeatedly to remove all menus and return to TV viewing.



- **Brightness**: Increases or decreases amount of white in the TV picture.
- **Contrast**: Adjusts the level of difference between white and black in the TV picture. The more contrast, the brighter the picture appears.
- **Color**: Adjusts levels of all colors in the TV picture.
- **Tint:** Adjusts the relative amounts of the color red and green in your picture.
- **Sharpness:** Raises or lowers the definition of the picture. The lower the level, the softer the image will appear.

Pressing “CANCEL” while making Picture menu adjustments will reset all setting to the original (default) values as set by the factory.

Picture menu options disappear after 6 seconds if no keys are pressed on the remote control.

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V-Chip (Parental Control)

This optional feature can be used to "block" undesirable programming from appearing on your TV

"V-CHIP" offers the user a wide variety of options and settings that restrict or "block" the programming that can appear on the TV. V-Chip allows the user the capability of defining which program rating they consider acceptable, to the younger or more sensitive viewer. It can be preset and turned either on or off by the user who specifies a secret 4-number code, the password. For complete programming coverage, General Audience and Children viewer blocks should both be programmed into the TV's memory. Viewer ratings are specified for both TV programming and the motion picture industry; both rating systems can be used. The ratings are based mainly on the ages of children. (V-Chip cannot control TV programming or tapes which do not contain restriction ratings.)

Overview

To insure complete coverage for all TV programs, (movies and regular TV shows) choose a rating for MPAA, from the selections below AND choose ratings from the TV Parental Guidelines Rating System on the next page, using the Age Block option for General Audiences, and for Children. In addition to those, you may wish to include additional restrictions from the Content Block menu. See the V-CHIP menu, and submenus example on the next two pages.

Things to Consider before Setting Up V-CHIP (Parental Control)

Most important is to remember your 4-number Password! Without the password, you cannot change V-Chip!
Determine which rating you consider acceptable to the viewer. (For example, if you choose TV-PG, all more restrictive ratings will be automatically blocked; the viewer will not be able to see: TV-PG, TV-14, or TV-MA rated programming.)

V-CHIP can restrict the TV Audio/Video input jacks; have the restrictions you specified filter the content from the audio/video input sources (Line 1 and Line 2).

You can also block program "Content" based on individual parameters such as: Violence, Sexual Situations, Adult Language, Sexual Dialog; in the Contents option.

Select a secret password; in the Set Password option. Use the number keys on the remote. Don't forget the password, it is the only way you can access the V-CHIP menu and change rating selections, or turn V-CHIP off.

Do you want restrictions to be active all the time? If not, you can turn them on or off; with the V-CHIP On/Off option.

You should set V-CHIP viewing restrictions for General Audiences and for Children - - both should be active at the same time.

Simply specifying one content block such as Sexual Situations, will not automatically block another content in the programs from appearing.

V-CHIP restricts the programming content that appears from the audio/video sources (Line 1 and Line 2).

You cannot disable V-CHIP by disconnecting the TV from power. V-CHIP restrictions reset if power is disconnected. REMEMBER YOUR PASSWORD!!!

Mini glossary

MOTION PICTURE ASSOCIATION OF AMERICA (MPAA) RATING SYSTEM

OFF	Movie Rating restrictions are not active	
G	General Audiences	Content not offensive to most viewers.
PG	Parental Guidance Suggested	Content is such that parents may not want their children to view the program.
PG-13	Parental Guidance Suggested	Program is inappropriate for preteens, with a greater degree of offensive material than a PG rated program.
R	Restricted viewing	Not for children under age 17. Strong elements of sex and/or violence.
NC-17	Restricted Viewing	Not for children under age 17 under any circumstances. Strong sexual content.
X	Hard Core Films	Same as NC-17 rating.

Note: Zenith Electronics Corporation is not liable for any program content that appears when using this rating system; as always, user discretion is advised.

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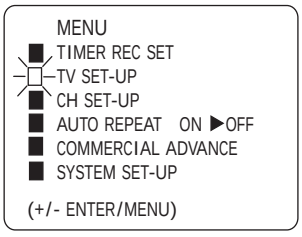
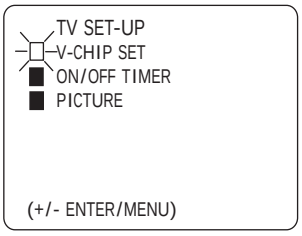
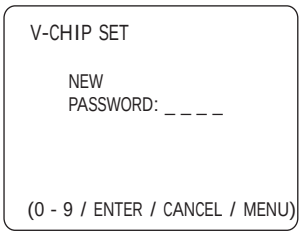
Setting Up V-Chip (Parental Control)

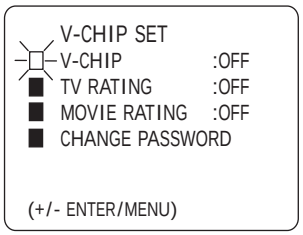
After you have read the preceding page, follow instructions below to set up and activate V-Chip

1









Follow These Instructions

As shown above in the "TV SET-UP" menu, highlight the "V-CHIP SET" option, press "ENTER" to go to the "V-CHIP" menu. Key in a 4-number password using the number key-pad, then press ENTER. (To access the V-CHIP SET menu once your restrictions are set, you must key-in the 4-number password again and press ENTER.)

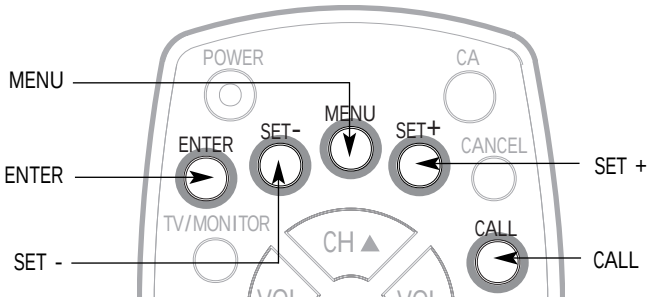
Use "Set+" or "Set-" to select an option, like "TV RATING" for example, press "ENTER" to go to the TV-Rating menu. Press "CALL" to set CONTENTS (in the Call menu you will find individual restrictions like Violence, Adult Language, etc. which you can turn on or off).

Use "Set+" or "Set-" to select a Contents Block classification like "Violence". Use "Set+" or "Set-" to choose an acceptable rating for that option, TV-14 and Above, for example. *(See the Mini Glossary, Ratings Charts on this and the previous page for rating meanings.)*

Use "Set+" or "Set-" to select another Contents Block classification like "Adult Language" for example and then choose an acceptable rating. Or, press "MENU" to return to the V-Chip menu to select and adjust other classifications.

After you have selected and adjusted the V-Chip menu options to your preferences, set the V-Chip option to either on or off. On=V-Chip will filter programming.
Off=V-Chip will not restrict programming content from appearing.

Press MENU repeatedly to remove all menus from screen.



See the next page for examples of the V-Chip menus.

Some broadcasts and tapes do not contain any rating information.

Mini glossary

TV PARENTAL GUIDELINE RATING SYSTEM

OFF	TV Rating restrictions are not active	
TV-G	General Audience	Considered suitable for all audiences; children may watch unattended.
TV-PG	Parental Guidance Suggested	Unsuitable for younger children, may contain: Suggestive Dialog, Bad Language, Sex, and Violence Scenes.
TV-14	Parents Strongly Cautioned	Unsuitable for children under 14, may contain: Strong Dialog, Bad Language, Sex, and Violence Scenes.
TV-MA	Mature Audience Only	Adults only, may contain: Strong Dialog, Bad Language, Sex, and Violence Scenes.
CHILDREN'S CLASSIFICATIONS		
TV-Y	Children	Considered suitable for all children under 7 years old.
TV-Y7	Children 7 and over	Considered suitable for children over 7, may contain Fantasy Violence Scenes.

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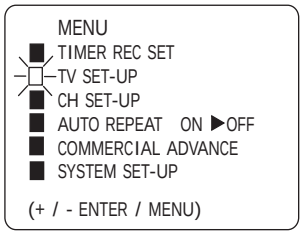
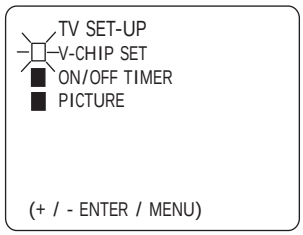
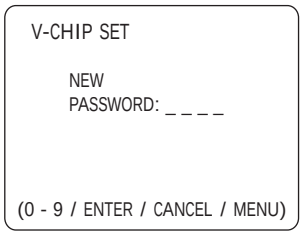
V-Chip Menus

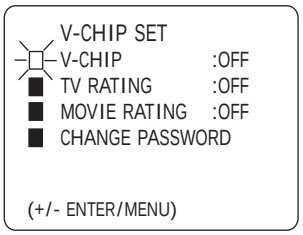
Use the V-Chip menus to restrict programming to that you deem suitable

TV Setup and V-Chip Menus

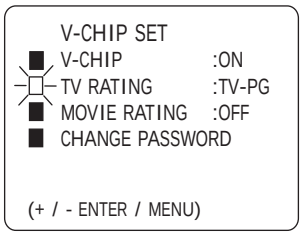


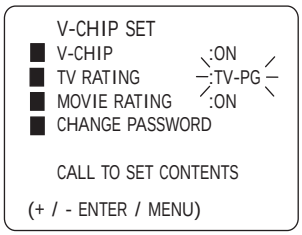


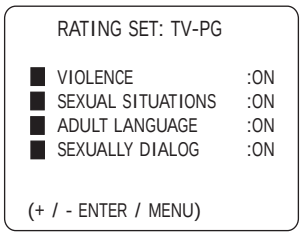




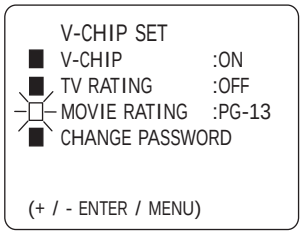
TV Rating Menus- see the Mini Glossary descriptions on page 31

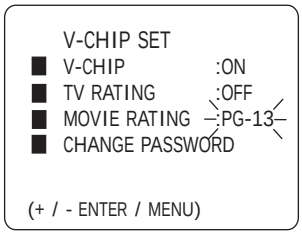




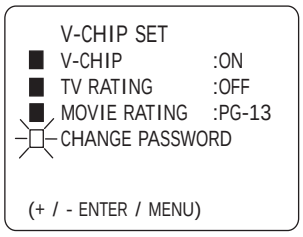


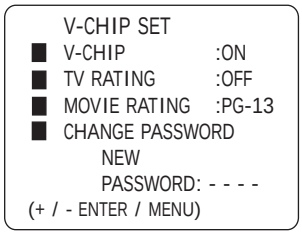
Movie Rating Menus- see the Mini Glossary descriptions on page 30

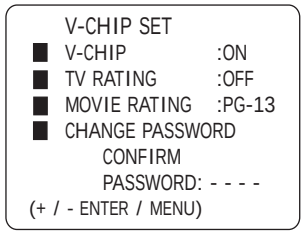




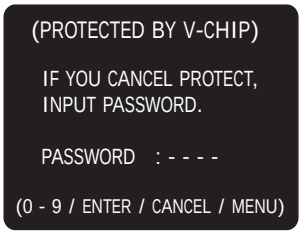
Password Menus







Turn Off V-Chip Restrictions Temporarily



Note: You can momentarily turn off V-Chip to watch a V-Chip content restricted program or tape by keying-in your 4-number password when the “PROTECTED BY V-CHIP” message is displayed. Each time you play a tape or tune to a channel which has V-Chip restricted content, the “Protected” message is displayed. To leave Content restrictions in place but turn off V-Chip, select Off for the V-Chip Set On/Off option in the V-Chip Set menu. When you want to restrict content again, choose On in the menu.

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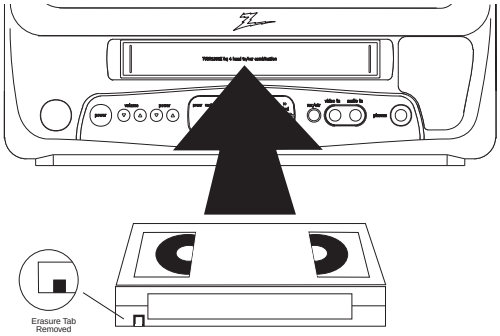
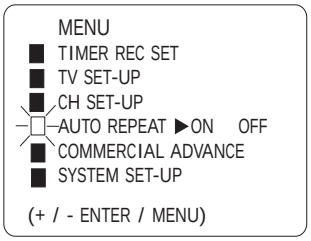
Playback: Standard Play Mode Options





Play

Loading Videotape Cassettes = Insert a VHS tape into the cassette loading compartment.

Start Playback = Press PLAY on the remote or the TV front Controls. (If the security erasure tab has been removed, the tape will begin to play automatically when it is loaded into the cassette compartment.)

Visual Search = In the Playback mode, press Rew (Rewind) once, or twice for increased rewind speed. Or, press F.Fwd (Fast Forward) once for normal speed, or twice for increased fast forward speed.

Pause/Still = Press PAUSE/STILL to interrupt or resume playback.

Stop Playback = Press STOP on the remote or the TV front controls.

Fast Forward = Press F.F on the remote or F.Fwd on the front controls.

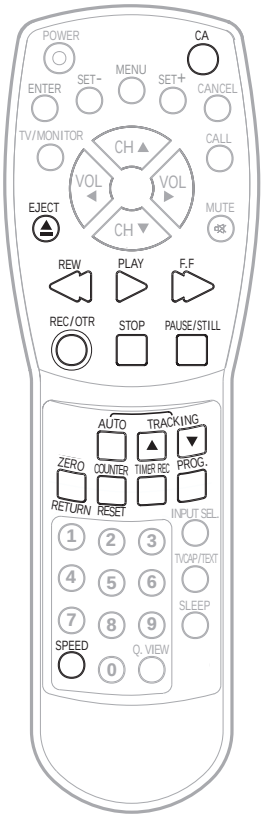
Rewind = Press REWIND on the remote or Rew on the front controls.

Eject Tape = Press EJECT on the remote or the TV front controls to unload a videotape Cassette.

Repeat Playing a Tape = (See menu above) Use “Set+” or “Set-” to select AUTO REPEAT. Press ENTER to move arrow to ON or OFF. ON=tape will rewind, repeat playing, OFF=tape will not repeat playing.

TV/Monitor = Playing a tape and monitoring a TV program. Press TV/MONITOR to switch the picture and sound between the tape playing in the VCR and the program on the currently selected TV channel.

Tracking Controls (Eliminates Video Noise) = Tracking is adjusted automatically as a tape is played. To adjust the tracking manually, use the TRACKING up/down keys on the remote. To resume Auto tracking, press the AUTO key on the remote.



VCR Play/Record Option Keys

Mini glossary

VIDEO NOISE	In playback mode, horizontal lines that appear over the picture as a tape is playing, rewinding, or fast forwarding.
VISUAL SEARCH	Locating a position on a tape while tape is being advanced or rewound in playback mode.

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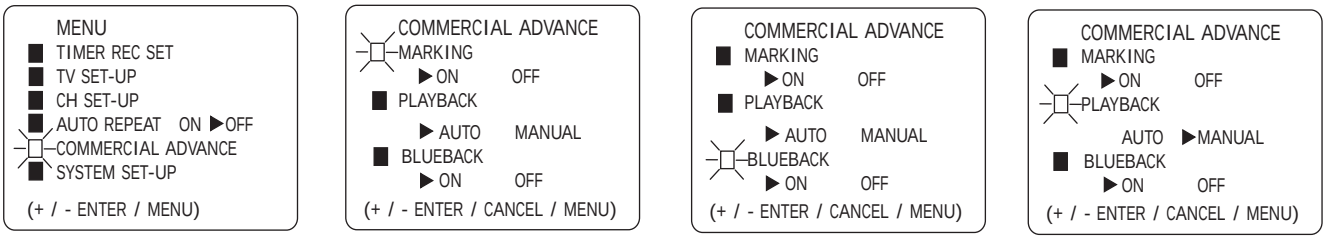
Playback: Commercial Advance

Have your Entertainment Machine mark commercial breaks on the tapes you record with this TV/VCR, then fast forward past them during playback for commercial-free viewing



Commercial Advance finds and marks commercial breaks in the broadcast when you make tape recordings of at least 15 minutes long of TV programs using this TV/VCR. When the recording is complete, the tape is rewound and the commercials breaks are “marked”; this process takes a few minutes to complete and the “Marking” message is displayed. When marking is complete, the message disappears. Then, when the tape is played back, commercial breaks are skipped over automatically. (If you want to watch the commercials, when the “Commercials Marking” message is displayed on the screen, press PLAY; commercial breaks will be shown during playback.)

Commercial Advance Menu Options
Marking: On or Off. On, will mark the recorded tape after recording is over for commercial breaks.

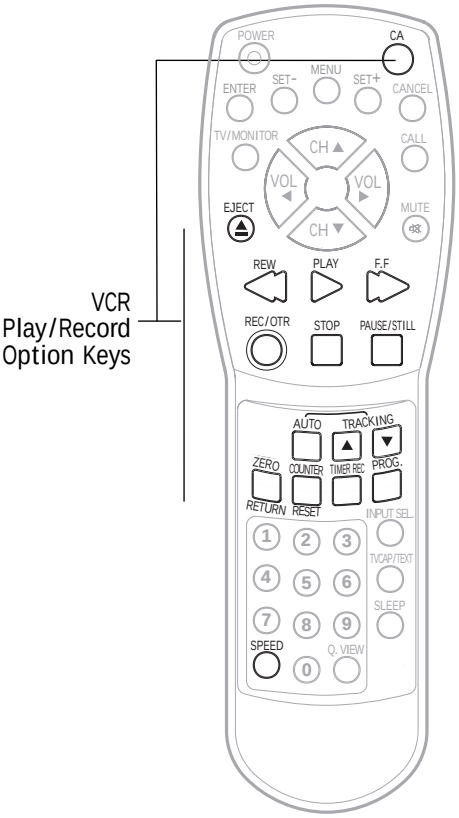
Playback: Auto or Manual. Will rewind and play the tape automatically if ”Auto” is selected.

Auto/Manual Skip: Allows user to manually skip over commercials as a tape is being played back; if the “Playback” option is on the “Manual” setting prior to tape recording. User presses CA to advance tape and fast forward past commercials manually.

Blueback: (Blue background) On or Off. If On, shows a blue background, instead of the picture as the tape is fast forwarded past commercial breaks.

Turn Blueback Off to see the picture on the tape as it advances (fast forwards) through commercial breaks.

If you pick “Blueback”, (when a tape is played back) the screen will appear in a blue color as the commercial breaks are being skipped over.



Commercial Advance is a registered trademark of SRT, Inc. A Jerry Iggulden invention licensed in association with Arthur D. Little Enterprises, Inc.

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The Real-Time tape counter displays the elapsed time during playback or recording
Zero return advances or rewinds the tape to the 00:00:00 position
Counter Reset maintains current tape position but resets counter to 00:00:00

Tapes Recorded on this TV/VCR Playback Options

Display Current Real-Time Tape Counter Status
Press CALL on the remote to view the current tape counter status.

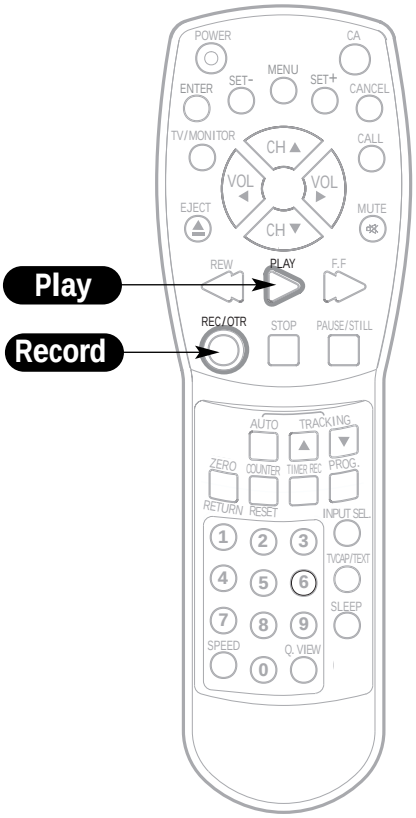
Commercials Marking
(After a tape is recorded with this TV/VCR, it marks the location of commercial breaks. This procedure usually takes several minutes.)
Press STOP to cancel "Marking" or press PLAY to allow commercial breaks to appear normally when the tape is played back.

Real-Time Tape Counter
When a recording is made, the VCR times the recording in actual hours, minutes, and seconds. Each time a tape is inserted the counter resets to 00:00:00.

The Real-Time Tape Counter is based on a 24-hour day. The first two digits are hours--up to 24, the next two digits are minutes--up to 60 and the last two digits are seconds--up to 60.
(24 hours per day, 60 minutes per hour, 60 seconds per minute.)

Zero Return (Tape Counter)
A convenient way of returning the tape to the start of a recording if the counter was set to 00:00:00 when the recording was started. To return the tape to the 00:00:00 position press ZERO. The tape will advance or rewind until it reaches the 00:00:00 position.

Reset Counter to 00:00:00
To set the current tape position at 00:00:00, press COUNTER RESET on the remote. The counter will read 00:00:00.



To use Commercial Advance, see page 32.

Each time a tape is loaded, the counter resets to 00:00:00 automatically.

The unique record and playback features described in this operating guide are only available when using this TV/VCR. As a result, tapes recorded with other VCRs will not have some of the special features available on this TV/VCR like Commercial Advance.

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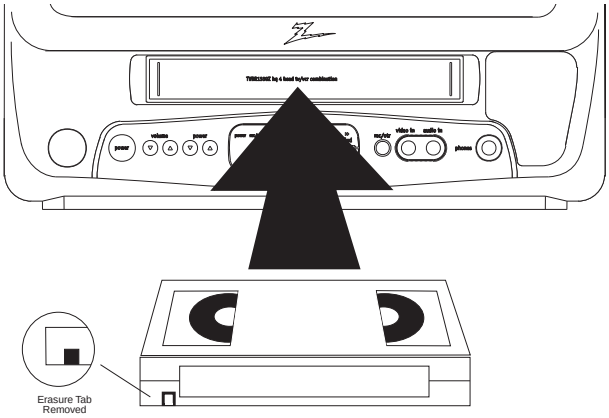
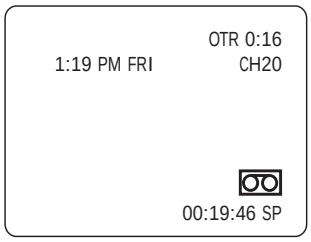
Timer Recording: One-Time Recording

Use one-time recording to record what you see on your TV screen





One-time recording on-screen status display

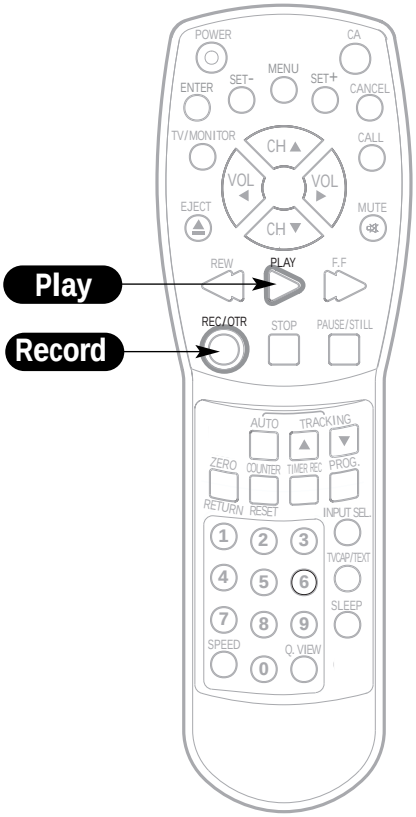
Recording Tapes (One-Time Recording)

1 Insert a tape into the tape loading compartment. Rewind or advance the tape to the position you want the recording to begin. (You can only record on tapes which have the erasure prevention tab intact. If the VHS cassette does not have the erasure tab intact, eject the tape and paste a piece of clear mylar tape over the security tab hole to be able to record on the tape.)

2 Tune to the channel or the input source you want to record so that its image appears on the screen. Press REC/OTR to record the image on the screen.

3 Press PAUSE/STILL to momentarily halt recording, press PAUSE/STILL again to resume recording.

4 Press STOP to halt recording, press EJECT to remove tape when finished.



Press REC/OTR repeatedly to choose Timed Instant Timer Recording. Each additional press of REC/OTR increases the recording time by 30 minutes for up to a maximum of 5 hours.

Additional recording options are available such as Timer Recording; primarily used to record tapes while you are away. Recording speed and other options are available, see the next two pages. Also see the Table of Contents on page 7 for additional recording options.

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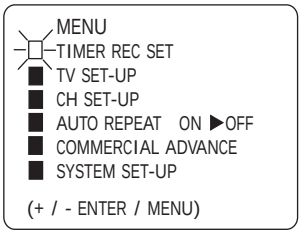
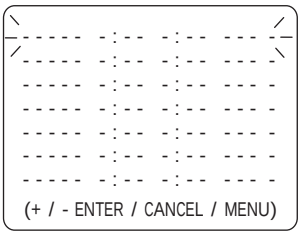
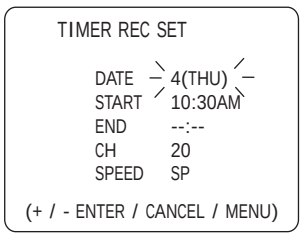
Timer Recording Set-Up

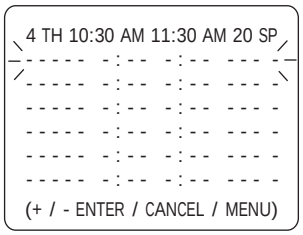
Using the TV/VCR timer to make recordings, you can schedule to record up to 8 programs in one month.







Menu displays current: day/time/channel, and recording speed setting.



1 Press POWER to turn TV/VCR on. Insert a VHS tape into the tape loading compartment. Cue the tape to the position you want to start the recording.

2 Press MENU repeatedly to show the menu. Using “Set+” or “Set-” on the remote select TIMER REC SET, press ENTER.

3 When the program timer recording menu appears, press ENTER to go to the first timed recording slot. Notice the Date, Time, Current Channel, and recording speed are preset. Press “ENTER” to go to the Date option.

4 Use “Set+” on the remote control, to pick the date you want to make the recording, press ENTER. The highlight automatically goes to the next option, the hours/minutes/AM-PM line.

5 Use “Set+” or “Set-” on the remote control, to pick the hour and AM or PM you want the recording to begin, press ENTER. (Be sure to pick either AM or PM when you are selecting the hour.) Use “Set+” or “Set-” on the remote control, to pick the minutes start time, press ENTER.

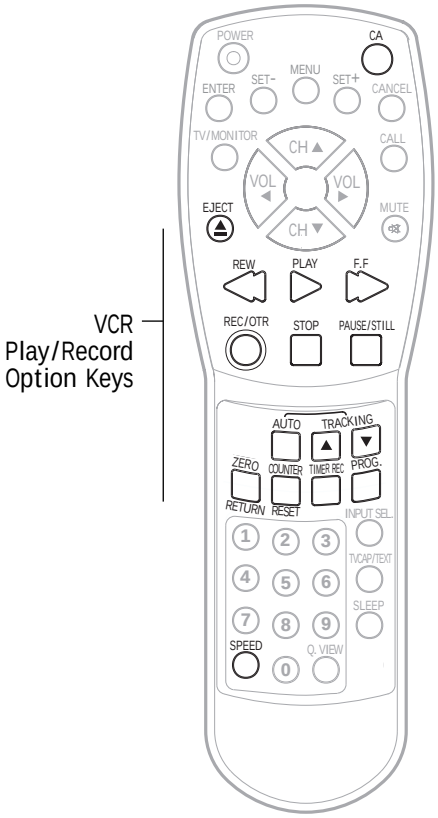
6 Using the same method as described above (Set- and Set+ and ENTER, use CANCEL to go back to previous option in menu), set the ending time of the timer recording, pick the channel number (or Line 1 or Line 2), and select the recording speed.

7 When ready to record, press TIMER REC on remote; to turn on timer recording mode. (VCR will be unoperable until TIMER REC is released from timer recording mode by pressing TIMER REC, or all timer recording assignments have been completed.)

Note, Channels select options: When using “SET-” or “SET+” the menu goes through the channels that are “added” in numerical order. At the end of the channel listing is the input source list. For example, to select an input source like Line 1, keep pressing “SET-” or “SET+” repeatedly until “Line 1” appears.

Note: See the next page for recording using the Daily or Weekly options.

During timer recording you can watch TV, but only the program being recorded.



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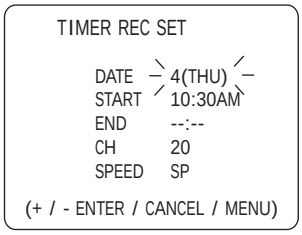
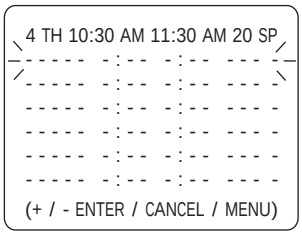
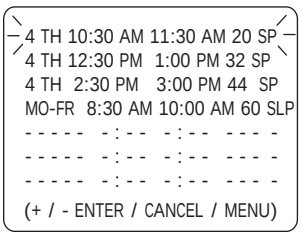
Timer Recording Options

Using the TV/VCR timer to make recordings while you are away

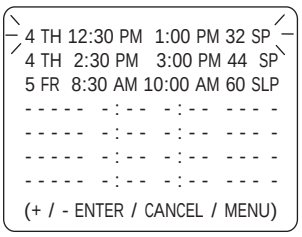


Menu displays current: day/time/channel, and recording speed setting.





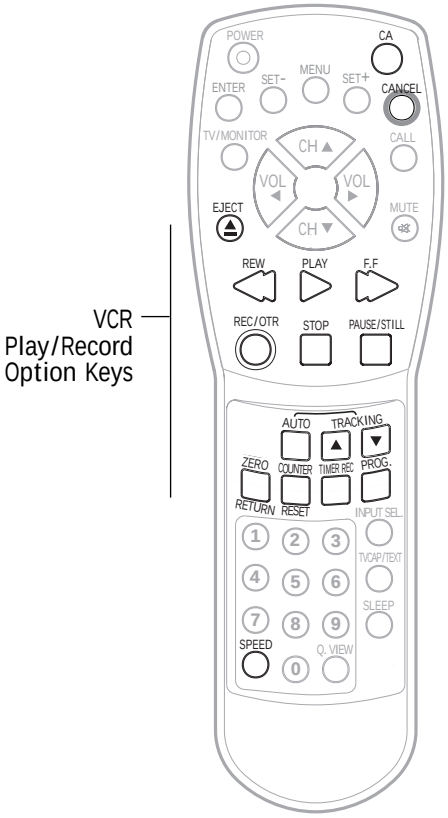
Menu displays programs scheduled to be recorded. MO-FR indicates a program scheduled to be recorded each day (Daily) Monday through Friday.



Recording Tapes (Additional Timer Recording Options)

Setting Daily / Weekly Timer Recording
When prompted to enter the date of the recording, instead of inputting the one-time recording date of a timer recording, you can set up the timer to record the program once each day (Daily) or one time each week (Weekly), for up to a month (8 programs maximum).

With the current day selected, set your preference by pressing "SET-" repeatedly to select one of the following menu options: Sun-Sat, Mon-Sat, Mon-Fri, WKL-THU, WKL-WED. WKL-TUE, WKL-MON, WKL-SUN, WKL-SAT, or WKL-FRI. For example, to record a program each day Sunday through the next Saturday, select; Sun-Sat. To record a program one time each week on Friday, select: WKL-FRI. To delete a selection on the menu or to go back in the menu, press CANCEL.



PROG (Program)
- First press, displays the Timer Recording Schedule.
- Second press, displays the On/Off Timer Settings.
- Third press, removes menu from screen.

Canceling Scheduled Timer Recordings
Press PROG. to display the Timer Recording Schedule. Use Set- or Set+, to pick the program you want to delete from the recording schedule. Once the program is highlighted, (flashing) press CANCEL to delete the program from the scheduled timer recordings.

Mini glossary

Daily	Records program one time each day for specified time and duration per selected option.
Weekly	Records program one time each week for specified time and duration per selected option.

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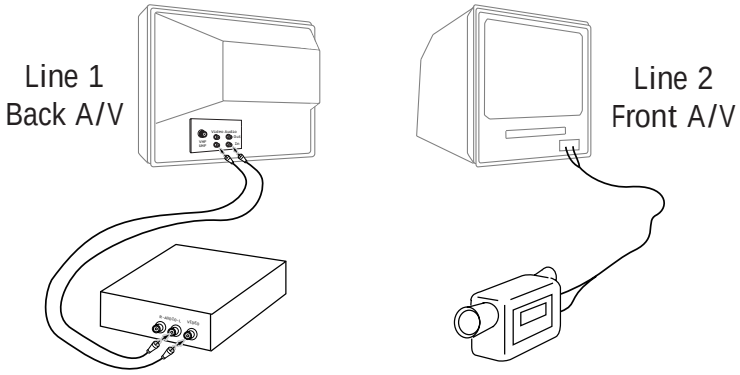
Duplicating Video Tapes

You can copy a tape playing in another VCR or from a camcorder



1 Make connections to the TV/VCR and to the equipment you want to make a copy of as shown above, before turning on the power to all equipment.

2 Insert a VHS cassette tape into the TV/VCR, cue the tape to the position you want the recording to begin. Insert the tape you want to duplicate into the other VCR or camcorder.

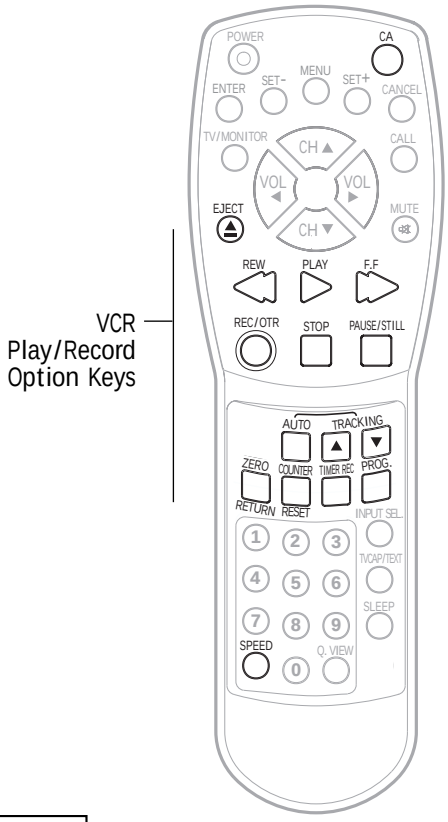
3 Turn on all equipment.

4 Press INPUT SEL. on the remote control to select the input jacks the VCR, or camcorder is connected to; Line 1 or Line 2.

5 Press REC/OTR, then press PAUSE/STILL. Press play on the VCR or camcorder, then press PAUSE when the tape is at the position you want to begin recording from. Press PAUSE on both units simultaneously to begin the duplicating process.

6 Press STOP when the recording is complete.

Press SPEED to select a different recording speed if you want to make the duplicate recording at a speed other than SP. (Using the SP recording speed setting yields the best possible reproduction of the original recording.)



Recording Speed	VHS Video Cassette Tape Length in Minutes				
	T-160	T-120	T-90	T-60	T-30
SP	2-2/3 Hours	2 Hours	1-1/2 Hours	1 Hour	30 Minutes
LP	5-1/3 Hours	4 Hours	3 Hours	2 Hours	1 Hour
SLP	8 Hours	6 Hours	4-1/2 Hours	3 Hours	1-1/2 Hours

SP Standard Play, best reproduction, shortest play/record time available.
LP Long Play, second best reproduction, longer play/record time available.
SLP Super Long Play, good reproduction, longest play/record time available

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This TV/VCR cleans the heads automatically

Automatic Head Cleaning System

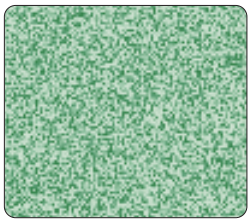
This TV/VCR has a video head cleaning system built-in. This system automatically cleans the heads when a cassette is inserted or ejected to prevent dirt from accumulating.

Head Cleaning may be necessary if the playback picture is of poor quality while the image recorded was of good quality. Using tapes that are damaged or are of poor quality can cause the heads to become dirty and require them to be cleaned. If the heads need to be cleaned use a high-quality head cleaning system or have the heads cleaned professionally.

The video heads are the means by which the TV/VCR reads the picture from the tape during playback. In the unlikely event that the heads become dirty enough to become clogged, no picture will be seen. If you play a tape and the sound is good but the picture is snowy, the heads may be clogged.

Have the TV/VCR repaired / serviced by a qualified technician.

Good Picture



Snowy Picture

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Trouble Shooting

Some quick and easy tips to fixing problems yourself

Symptoms	Possible Cause(s)	Possible Solution(s)	See page(s)
Power			
No Power.	• AC Power Cord not connected.	-Connect power cord. Try a different outlet. -Local power failure?	9/10/11
TV/VCR does not record.	• Cassette not inserted.	-Insert VHS cassette.	19
	• T. Rec not lit.	-Press TIMER REC. to light T.Rec indicator light.	13
	• No program in Timer.	-Press PROG. to see Timer Recording Schedule.	37
Picture Reception			
Poor or no picture.	• TV station problems.	-Try a different channel.	13/14
	• Picture menu not adjusted properly.	-Check picture menu options settings.	29
	• Local interference.	-Check for disturbing source.	
Poor or no color.	• Sub-standard broadcast.	-Try a different channel.	13/14
	• Sub-standard cable signal.	-Notify cable company of reception problem. Play a tape.	19
	• Old, worn out tape.	-Try a different tape.	19
Picture wobbles or drifts.	• CATV not connected, loose.	-Make or tighten connection.	8/10/11
	• Local interference.	-Try different channel. Turn off interfering appliance.	13/14/43
	• Scrambled CATV channel.	-Tune to unscrambled channel.	11/13/14
No CATV reception.	• Cable not connected.	-Connect cable to UHF/VHF.	10/11
	• Cable service interrupted.	-Contact cable service.	
	• TV set not CATV.	-Select CATV in TV Set-Up menu.	17
No reception above channel 13.	• TV-CATV set incorrectly.	-Set to proper mode, do channel search.	17
	• UHF Antenna not connected.	-Connect UHF antenna.	9
Poor or no sound.	• Audio Muted.	-Press MUTE or volume right key to increase sound level.	14
	• Broadcast problem.	-Try a different channel.	
TV turns On.	• On Timer turned TV On.	-Cancel On Timer, and/or turn TV off.	27
TV shuts Off.	• Off Timer turned TV Off.	-Cancel Off Timer, and/or turn TV back on.	27
	• Sleep Timer turned TV Off.	-Turn TV back on.	28
No Closed Captions or Text.	• Not available on show.	-Check local TV listings to see if available on broadcast. -Relocate over-the-air antenna. -Try a different channel with Closed Captions or Text.	28
	• Not turned on.	-Pick a Closed Caption or Text option.	28
V-CHIP Problems			
Protected by V-Chip shows on screen.	• Viewing is restricted by V-Chip.	-Key-in password and press ENTER to unlock V-Chip restrictions temporarily. -Turn V-Chip Set to Off in V-Chip Set menu.	30/31/32 30/31/32
	• Don't Know password.	-Tune to channel without V-Chip "Content" restrictions.	
Channel shows protect message as it is tuned to.	• Channel content is restricted by V-Chip.	-Tune a channel without V-Chip "Content" restrictions or set individual restrictions in V-Chip Set menu to Off.	30/31/32

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Some quick and easy tips to fixing problems yourself

Symptoms	Cause(s)	Possible Solution(s)	Page(s)
During **Recording**			
No Power.	• AC Power Cord not connected.	-Connect cord.	9/10/11
Although power is okay, TV/VCR does not Timer Record.	• Cassette is not inserted.	-Insert VHS cassette.	19
	• Timer record mode not active.	-Press TIMER REC.	15/36
	• Erasure Tab missing	-Paste mylar tape over tab opening.	19
	• Time not set correctly.	-Correct clock or timer record time settings.	23/24/25/26/36
During Playback			
Noise lines appear on-screen.	• Tape is old or worn out.	-Replace tape.	
	• Local interference.	-Check for disturbing source.	43
	• Auto Tracking set to Off.	-Press AUTO to turn on automatic tracking control.	15
	• Tracking adjustment beyond range of auto tracking	-Adjust tracking manually.	15/33
	• Video heads are dirty.	-Clean video heads.	40
Noise appears when visual search is used.	• This is normal in search modes.	-Noise should disappear once playback begins.	
Tape won't play.	• Time Record is set.	-Press TIMER REC on remote to turn off.	37
Using **Remote Control**			
Remote does not work.	• TV software functioning.	-Wait until software function is complete.	
	• Not aimed at remote sensor.	-Point remote at Front Control Panel.	
	• Remote too far from TV or too much light in room.	-Move remote closer to TV or darken room.	
	• IR path to TV/VCR is interrupted.	-Remove obstructions.	
	• Weak batteries.	-Replace batteries.	9/10/11
	• Wrong battery polarity.	-Check that "+" and "-" match in battery compartment.	9/10/11
	• Timer Recording is set.	-To use VCR, press TIMER REC to turn T.Rec indicator light off on front panel. After usage, press TIMER REC to turn feature back on to make scheduled timer recording.	13
Menu Operation			
Menu options can't be changed or selected.	• Software lock-up.	-Unplug power cord for 5 minutes to unlock software. (Reset clock if necessary.)	9/10/11
Menu option not selected. after using Set+ or Set-.	• ENTER not pressed after selecting option.	-Press ENTER to select option.	16
Timers do not work.	• "Cancel" selected on menu.	-Choose "Set" to make timer(s) work.	27
	• Clock not set.	-Set clock.	23 or 24/25/26
Clock is set, or sets itself, to Wrong Time			
Clock time is wrong.	• Wrong Time Zone.	-Reset to your time zone.	26
	• Daylight Savings Time wrong.	-If not observed in your area, set to off.	25
	• Time does not set automatically.	-Set clock manually.	24
	• Auto Clock doesn't work.	-Turn Auto Clock option "Off" in menu, set clock manually.	23/24

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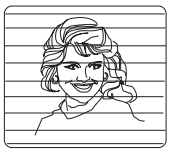
Reception Disturbances

Most types of television interference can be remedied by adjusting the height and position of the VHF/UHF antenna. Outdoor antennas are recommended for best results. The most common types of television interference are shown. If one of these symptoms appear when the TV/VCR is connected to a cable TV system, the disturbance may be caused by the local cable TV company broadcast.



Ignition
Black spots or horizontal streaks may appear, the picture may flutter or drift. Usually caused by interference from automobile ignition systems, neon lamps, or AC powered tools and appliances such as drills or hair dryers.

Ghosts
Ghosts are caused by the television signal following two paths. One is the direct path and the other is reflected by tall buildings, hills or other large objects. Changing the direction or position of the antenna may improve the reception.

Snow
If the TV/VCR is located far from the TV station, in a fringe area where the signal is weak, small dots may appear in the picture. If the signal is extremely weak, the installation of a larger external antenna may be necessary.

Radio Frequency Interference (RFI)
Caused by two-way radios, this type of interference produces moving ripples or diagonal streaks in the picture. Some cases may cause a loss of contrast in the picture. Changing the direction and position of the antenna or installing an RFI filter may improve the picture.

Picture Size Variation
A slight picture size variation is normal when you adjust the CONTRAST or BRIGHTNESS options in the PICTURE menu.

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Maintenance

Caring for your Entertainment Machine

Early malfunctions can be prevented. Careful and regular cleaning can extend the amount of time you will have with your new Entertainment Machine.

Be sure to turn the power off and pull out the power cord before you begin any cleaning. Remove the batteries from your remote control prior to cleaning, replace the batteries and reinstall the cover only after the remote has completely dried.

Screen Cleaning

1. Here's a great way to keep the dust off your screen for a while. Wet a soft cloth in a mixture of lukewarm water and a little fabric softener or dish washing detergent. Wring the cloth until it's almost dry, and then use it to wipe the screen.
2. Make sure the excess water is off the screen, and then let it air-dry before you turn on your Entertainment Machine.

Cabinet Cleaning

1. Use a soft cloth with a mild soap solution. Wring the cloth until it's almost dry, and then use it to wipe the cabinet.
2. Rinse the cloth, wring the cloth again until it's almost dry and wipe the cabinet again.
3. Let the cabinet air-dry before turning your Entertainment Machine on.

Remote Cleaning

1. Use a soft cloth with a mild soap solution. Wring the cloth until it's almost dry, and then use it to wipe the remote control.
2. Rinse the cloth, wring the cloth again until it's almost dry and wipe the remote control again.
3. Let the remote control air-dry before using it.

Wood Cabinet

1. Use a quality wood furniture cleaner and polish. This will protect your Entertainment Machine from dirt and dust, as well as keep the cabinet looking new.

Extended Absence

If you leave your Entertainment Machine dormant for a long time (such as a vacation), it's a good idea to unplug the power to protect against possible damage from lightning or power surges. If you use an off-air antenna, you may also want to disconnect it from the back of your TV before leaving.

If you unplug your Zenith Entertainment Machine, you may have to reset the clock using the Clock Set menu described earlier. *See page 24.*

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Glossary

A list of definitions for some of the words found in this operating guide

300 - 75 OHM ADAPTER
Used to convert 75 ohm cable to 300 ohm twin-lead wire, or 300 ohm to 75 ohm.

A - B SWITCH
Device which allows you to manually select between two video inputs.

A/V CABLES
Audio and Video cables. A/V cables are used for higher quality picture and sound from other Audio/Video devices.

A/V DEVICE
Equipment that produces picture and sound (VCR, DVD, cable box, or television).

ADD
Includes channels that you want to watch in addition to the channels found by Ch Memory.

AMPLIFIER
An external device that amplifies sound from a television, CD player, VCR, DVD, etc.

ANTENNA
The physical receiver of television signals sent over the air. A large metal piece of equipment does not always have to be visible for your home to be using an antenna.

CATV
Cable television service. (Pay TV.)

CABLE
Cable Box operating mode on the remote.

CABLE SERVICE
Programming provided by a cable company.

CAPTIONS/TEXT
A form of subtitling that writes out the dialog for your program.

COAXIAL CABLE
Special (75 ohm) wire used to connect antenna or cable systems to VCRs or TVs.

COMBINER OR COUPLER
Connects two different inputs into a single output.

CONVERTER/DESCRAMBLER BOX
Cable company supplied device for receiving or descrambling cable signals. Often used for TVs which cannot receive cable signals or for Pay TV reception.

DIGITAL AUTO TRACKING
Automatically adjusts playback tracking for the best possible picture.

DUBBING
Recording from one video cassette to another.

DELETE
Remove channels that you don't watch from the channels found by Ch Memory.

Full Loading Tape Transport
Keeps videocassette fully loaded in the VCR for rapid access between modes.

HQ (High Quality Picture)
Special circuitry designed to improve VHS quality. Includes "white chip expansion" and one or more additional special circuits.

ICON
A small picture on your screen representing a function or menu item.

INPUT
Refers to the jack that receives a signal into the TV, VCR or other A/V device.

JACK
A connection on the back of a TV, VCR, or other A/V device. This includes the RF jack that is threaded with a place for a small wire in the center, and the Audio/Video jacks that have a bigger opening and are color-coded.

MONO SOUND
Mono (monaural) sound is one channel of sound. On more than one speaker all the speakers play the same audio.

OHM RF CABLE
The wire that comes from an off air antenna or cable service provider. Each end looks like a hex shaped nut with a wire sticking through the middle, and it screws onto the large threaded jack on the back of your TV/VCR.

OUTPUT
Refers to the jack that sends a signal out of a VCR, DVD, or other A/V device.

SIGNAL
Picture and sound traveling through cable, or over the air, to your television screen.

SPLITTER
Device used to divide an incoming signal into two or more outputs.

SOURCE
The term for the equipment or connection that provides audio and video (picture and sound) to your Entertainment Machine. VCR, DVD players, or Cable Boxes are examples of sources.

TUNER
Device that picks up broadcast signals and turns them into picture and sound.

VIDEO CHANNEL
Broadcast channel (usually 3 or 4) used to output signals from a VCR, or cable box.

VIDEO INPUTS/OUTPUTS
RCA type jacks on the back and front of the TV/VCR used for dubbing or providing audio or video signals from other audio/video sources.

VHS (VIDEO HOME SYSTEM)
Video tape format most commonly used in the U.S.A.

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TV/VCR Specifications

Note: Design and Specifications are subject to change without prior notification

Model No.	TVBR1322Z	TVBR1922Z
Television		
Picture Tube	13" Measured Diagonally	19" Measured Diagonally
Tuner Type	Quartz PLL Frequency Synthesized	
Receiving Channels	VHF 2 - 13	
	UHF 14 - 69	
	CATV 14 - 36 (A) - (W)	
	37 - 59 (AA) - (WW)	
	60 - 85 (AAA) - (ZZZ)	
	86 - 94 (86 - (94)	
	95 - 99 (A-5) - (A-1)	
	100 - 125 (100) - (125)	
	01 (5A)	
Antenna Input	VHF / UHF In 75 ohms coaxial	
Speaker	1.5" x 2.5", 8 ohms x 1	3", 16 ohms x 2
Audio Output Power	1.5 W	2.5 W (1.25+ 1.25W)
VCR		
Video System	VHS, 2 Rotary Heads Helical Scanning System	
Video Signal	NTSC Color	
Cassette Tape	VHS	
Audio Track	1 Track	
Tape Speed	SP 33.35 millimeters/second	
	LP 16.67 millimeters/second	
	SLP 11.12 millimeters/second	
F.FWD / REW Time	Fast Forward Approximately 3 minutes and 40 seconds (T-120 Cassette)	
	Rewind Approximately 2 Minutes and 50 seconds (T-120 Cassette)	
Search Speed	SP 3 & 5 times Normal Speed	
	LP 7 & 9 times Normal Speed	
	SLP 9 & 15 times Normal Speed	
General		
Power Source	AC 120V 60 Hz	
Power Consumption	70 watts	86 Watts
Dimensions	Width - 14 1/4"	Width -19 1/2"
	Depth - 14 1/2"	Depth -18 9/16"
	Height -15 1/16"	Height -19 1/16"
Weight	27.6 pounds	48.4 pounds
Inputs / Outputs	Video In (RCA) 1 Vp-p 75 ohm	
	Out (RCA) 1 Vp-p 75 ohm	
	Audio In (RCA) 300 mV/50K ohm	
	Out (RCA) 300 mV/1K ohm	
Storage Temperature	-20° C to 60° C (-4°F to 140°F)	
Operating Temperature	5° C to 40° C (41°F to 104°F)	
Accessories	Remote Control	Remote Control
	Telescopic Antenna with 300-75 ohm matching transformer	

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Recommended Video Accessories

INDOOR AMPLIFIED ANTENNA

Receive Local programming NOT available on your Satellite system!!! Perfect backup antenna for cable outages. Enhanced quality picture and stereo sound in weak signal areas.
• Amplified VHF/UHF/FM Antenna includes 4 feet of 75 ohm cable for easy hookup.

ATS 775 **ONLY $34.95** PLUS **$6.95** SHIPPING & HANDLING

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Set up your game room or spare room in style!! Sturdy black wall mounts keep the TV off your furniture and in easy view. All mounts have 90 degree and 10 degree tilt angles.
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